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/ PRIOR FILING DATE: 1998-10-14
/ PRIOR APPLICATION NUMBER: 60/104987
/ PRIOR FILING DATE: 1998-10-20
/ PRIOR APPLICATION NUMBER: 60/105000
/ PRIOR FILING DATE: 1998-10-20
/ PRIOR APPLICATION NUMBER: 60/105002
/ PRIOR FILING DATE: 1998-10-20
/ PRIOR APPLICATION NUMBER: 60/105104
/ PRIOR FILING DATE: 1998-10-21
/ PRIOR APPLICATION NUMBER: 60/105169
/ PRIOR FILING DATE: 1998-10-22
/ PRIOR APPLICATION NUMBER: 60/105266
/ PRIOR FILING DATE: 1998-10-22
/ PRIOR APPLICATION NUMBER: 60/105693
/ PRIOR FILING DATE: 1998-10-26
/ PRIOR APPLICATION NUMBER: 60/105694
/ PRIOR FILING DATE: 1998-10-26
/ PRIOR APPLICATION NUMBER: 60/105807
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Query Match 100.0%; Score 989; DB 10; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 GCGGCGCCGAGTCCGAGACCTGTCCAGAGCTCCAGCTCACTGACCTGTCACTGCC 60
QY 61 TCCCGCGGCTCTGCGCCGCGCATGACCCAGCCGCTGCGGCTCTGCGGCGCGCG 120
DB 61 TCCCGCGGCTCTGCGCCGCGCATGACCCAGCCGCTGCGGCTCTGCGGCGCGCG 120
QY 121 CGGTGCGCTGAGGCTGAGCGGCACTGAGGCGCGCTTCCGCACTGCGCTCTTCTGAGGA 180
DB 121 CGGTGCGCTGAGGCTGAGCGGCACTGAGGCGCGCTTCCGCACTGCGCTCTTCTGAGGA 180
QY 181 GCGGCGTCCCGCCCATATGCGAGGCGCGGCGAGAGAGTCTGCTTCCCGCGAGAGCGC 240
DB 181 GCGGCGTCCCGCCCATATGCGAGGCGCGGCGAGAGAGTCTGCTTCCCGCGAGAGCGC 240
QY 241 GCGTGTGAGAGTATCTTCTGAGCGGCTCATGCGGAGAGACCCGCGGCTGCGAGACCTGA 300
DB 241 GCGTGTGAGAGTATCTTCTGAGCGGCTCATGCGGAGAGACCCGCGGCTGCGAGACCTGA 300
QY 301 GCGTGTGAGACCTGTGAGAGCGCGAGGCGGATTCTATGATGACTTCCGAGAGCGCCAGC 360
DB 301 GCGTGTGAGACCTGTGAGAGCGCGAGGCGGATTCTATGATGACTTCCGAGAGCGCCAGC 360
QY 361 TCTTGGCCAACTGCGGCGGCTCATGAGGCGAGAGGCGCTGAGACCTGCGGCACTTCA 420
DB 361 TCTTGGCCAACTGCGGCGGCTCATGAGGCGAGAGGCGCTGAGACCTGCGGCACTTCA 420
QY 421 CGGCGTACTCCGCGCTGAGCGCTGAGCGCTGCGCGAGACCGGCGGCTGAGTGA 480
DB 421 CGGCGTACTCCGCGCTGAGCGCTGAGCGCTGAGCGCTGCGCGAGACCGGCGGCTGAGTGA 480
QY 481 GCGAGGTGAGACCGGAGCGCGGAGCTGAGAGCGGCGCTTGTGAGAGCGAGCGGCGG 540
DB 481 GCGAGGTGAGACCGGAGCGCGGAGCTGAGAGCGGCGCTTGTGAGAGCGAGCGGCGG 540
QY 541 AGCACAAGATCGACCTCCGCGTGAAGCGCGCTTGAAGACCTTGAAGACCTTGAAG 600
DB 541 AGCACAAGATCGACCTCCGCGTGAAGCGCGCTTGAAGACCTTGAAGACCTTGAAG 600
QY 601 CGGCGAGGCGCGGCACTTTCAGCTGAGCGCTGTGAGATGCGGACAAAGAGAACTGCTCG 660
DB 601 CGGCGAGGCGCGGCACTTTCAGCTGAGCGCTGTGAGATGCGGACAAAGAGAACTGCTCG 660
QY 661 CCTACTAGAGGCGCTGCTGAGCTGCTGAGACCGGAGAGCACTCTCCGCGCTCAGAG 720
DB 661 CCTACTAGAGGCGCTGCTGAGCTGCTGAGACCGGAGAGCACTCTCCGCGCTCAGAG 720
QY 721 TCTGTGCGCGGAGAGGTGCTGCAACTCCGAAAGGAGAGCTGCGGCGGAGTGTGTC 780
DB 721 TCTGTGCGCGGAGAGGTGCTGCAACTCCGAAAGGAGAGCTGCGGCGGAGTGTGTC 780
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DB 721 TCTGTGCGCGGAGAGGTGCTGCAACTCCGAAAGGAGAGCTGCGGCGGAGTGTGTC 780
QY 781 GAAACCTTAAAGAGAGCATCCGCGGAGAGCTGAGGATCTATCATGACCTCTGCGCGCTG 840
DB 781 GAAACCTTAAAGAGAGCATCCGCGGAGAGCTGAGGATCTATCATGACCTCTGCGCGCTG 840
QY 841 GCGATGACTCACTTGGCGCTTCAAGATCTAGGCTGCGGCTTGTGAGTGGCTCGAGG 900
DB 841 GCGATGACTCACTTGGCGCTTCAAGATCTAGGCTGCGGCTTGTGAGTGGCTCGAGG 900
QY 901 GAGGCTGCTGAGAGACCCGAGAAATGACCCCTGATTTTAAATTCGAAATAAGTGGG 960
DB 901 GAGGCTGCTGAGAGACCCGAGAAATGACCCCTGATTTTAAATTCGAAATAAGTGGG 960
QY 961 GCTGGGACACMAAAAAAAAAAAAAAAAAAAAAA 989
DB 961 GCTGGGACACMAAAAAAAAAAAAAAAAAAAAAA 989
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RESULT 2

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US-10-307-817-121
; Sequence 121, Application US/10307817
; Publication No. US20040058338A1
; GENERAL INFORMATION:
; APPLICANT: Agree et al.
; TITLE OF INVENTION: NOVEL, PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-502C
; CURRENT APPLICATION NUMBER: US/10/307,817
; NUMBER OF SEQ ID NOS: 682
; SOFTWARE: Cursesqlist version 0.1
; SEQ ID NO 121
; LENGTH: 989
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (84)..(869)
US-10-307-817-121
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Query Match 100.0%; Score 989; DB 12; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GCGGCGCCGAGATCCGAGACCTGTCCAGAGACTCCAGCTCACTGATCTGACTGCC 60
DB 1 GCGGCGCCGAGATCCGAGACCTGTCCAGAGACTCCAGCTCACTGATCTGACTGCC 60
QY 61 TCCCGCGGCTCTGCGCCGCGCATGACCCAGCCGCTGCGGCTCTGCGGCGCGCG 120
DB 61 TCCCGCGGCTCTGCGCCGCGCATGACCCAGCCGCTGCGGCTCTGCGGCGCGCG 120
QY 121 CGGTGCGCTGAGGCTGAGCGGCACTGAGGCGCGCTTCCGCACTGAGGCTCTTCTGAGGA 180
DB 121 CGGTGCGCTGAGGCTGAGCGGCACTGAGGCGCGCTTCCGCACTGAGGCTCTTCTGAGGA 180
QY 181 GCGGCGTCCCGCCCATATGCGAGGCGCGGCGAGAGAGTCTGCTTCCCGCGAGAGAGCC 240
DB 181 GCGGCGTCCCGCCCATATGCGAGGCGCGGCGAGAGAGTCTGCTTCCCGCGAGAGAGCC 240
QY 241 GCGTGTGAGAGTATCTTCTGAGCGGCTCATGCGGAGAGACCCGCGGCTGCGAGAGCTGA 300
DB 241 GCGTGTGAGAGTATCTTCTGAGCGGCTCATGCGGAGAGACCCGCGGCTGCGAGAGCTGA 300
QY 301 GCGTGTGAGACCTGTGAGAGCGCGAGGCGGATTCTATGATGACTTCCGAGAGCGCCAGC 360
DB 301 GCGTGTGAGACCTGTGAGAGCGCGAGGCGGATTCTATGATGACTTCCGAGAGCGCCAGC 360
QY 361 TCTTGGCCAACTGCGGCGGCTCATGAGGCGGAGAGAGGCGCTGAGACCTGAGACCTTCA 420
DB 361 TCTTGGCCAACTGCGGCGGCTCATGAGGCGGAGAGAGGCGCTGAGACCTGAGACCTTCA 420
QY 421 CGGCGTACTCCGCGCTGAGCGCTGAGCGCTGAGCGCTGCGCGAGACCGGCGGCTGAGTGA 480
DB 421 CGGCGTACTCCGCGCTGAGCGCTGAGCGCTGAGCGCTGCGCGAGACCGGCGGCTGAGTGA 480
```


APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2830P1C14
CURRENT APPLICATION NUMBER: US/10/006,856A
NUMBER OF SEQ ID NOS: 477
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 305
LENGTH: 989
TYPE: DNA
ORGANISM: Homo sapiens
US-10-006-856A-305

Query Match 100.0%; Score 989; DB 14; Length 989;

Best Local Similarity 100.0%; Pred. No. 5,6e-226; Mismatches 0; Indels 0; Gaps 0;

Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGGCCCGGAGTCCGAGACCTGTCCAGAGCTCCAGCTCACTGACCTGTCACTGCC 60
DB 1 GCGGGCCCGGAGTCCGAGACCTGTCCAGAGCTCCAGCTCACTGACCTGTCACTGCC 60
QY 61 TCCCGCGGCTCTGCGCCCGGCGCATGACCGCGGTGCGCGGCTCTCGTCCCGCGG 120
DB 61 TCCCGCGGCTCTGCGCCCGGCGCATGACCGCGGTGCGCGGCTCTCGTCCCGCGG 120
QY 121 CGCTGGCCCTGGGCTCAGCGCGGAGCTGGGCGCGCTTCCGACCTGGCTCTTCCGGGA 180
DB 121 CGCTGGCCCTGGGCTCAGCGCGGAGCTGGGCGCGCTTCCGACCTGGCTCTTCCGGGA 180
QY 181 GCGGTGTCCTCCCATGAGGCGCGGAGAGAGTGTCTCTCCCTCCCGAGAGAGCC 240
DB 181 GCGGTGTCCTCCCATGAGGCGCGGAGAGAGTGTCTCTCCCTCCCGAGAGAGCC 240
QY 181 GCGGTGTCCTCCCATGAGGCGCGGAGAGAGTGTCTCTCCCTCCCGAGAGAGCC 240
DB 181 GCGGTGTCCTCCCATGAGGCGCGGAGAGAGTGTCTCTCCCTCCCGAGAGAGCC 240
QY 241 GCTGTGGAGATCTTCTTGAAGCGCTCAATGGGAGAGACCCGGGCTGCGAAGCTGA 300
DB 241 GCTGTGGAGATCTTCTTGAAGCGCTCAATGGGAGAGACCCGGGCTGCGAAGCTGA 300
QY 301 GCGTGTGACCTTGAAGAGCGCGGAGGAGATCTATGATGACCTGCGAGAGCCCAAGC 360
DB 301 GCGTGTGACCTTGAAGAGCGCGGAGGAGATCTATGATGACCTGCGAGAGCCCAAGC 360
QY 361 TCTTGGGCAACCTGGGCGGCTCATCAGGCGCAAGAGGCGCTGAGACCTGGGACCTTGA 420
DB 361 TCTTGGGCAACCTGGGCGGCTCATCAGGCGCAAGAGGCGCTGAGACCTGGGACCTTGA 420
QY 421 CGGAGTACTCGGCTGAGCGCTGAGCGCTGAGCGCGGAGCGGCGCTGTGTAAGCT 480
DB 421 CGGAGTACTCGGCTGAGCGCTGAGCGCTGAGCGCGGAGCGGCGCTGTGTAAGCT 480
QY 481 GCGAGTGAAGCGCGAGCGCGCGGAGAGTGGAGAGCGCGCTGTGAGAGCGCGGAGCGG 540
DB 481 GCGAGTGAAGCGCGAGCGCGCGGAGAGTGGAGAGCGCGCTGTGAGAGCGCGGAGCGG 540
QY 541 AGGACAAGATGACCTTCCGCTGAGAGCGCGCTTGGAGACCTTGAAGAGCTGTGCGG 600
DB 541 AGGACAAGATGACCTTCCGCTGAGAGCGCGCTTGGAGACCTTGAAGAGCTGTGCGG 600
QY 601 CGGAGGAGCGCGGACCTTGAAGCGCGCTGTGAGATGGAGCAAGAGAGAGTGTCCG 660
DB 601 CGGAGGAGCGCGGACCTTGAAGCGCGCTGTGAGATGGAGCAAGAGAGAGTGTCCG 660
QY 661 CCTACTAGAGCGCTGAGAGCGCGGAGAGTGGAGAGCGCGCTGTGAGAGCGCGGAGAG 720
DB 661 CCTACTAGAGCGCTGAGAGCGCGGAGAGTGGAGAGCGCGCTGTGAGAGCGCGGAGAG 720
QY 721 TCTGTGGCGCGGAGAGTGTGCAACTTCGAAAGGAGAGCTGTGCGCGGAGAGTGTGTC 780

DB 721 TCTGTGGCGCGGAGAGTGTGCAACTTCGAAAGGAGAGCTGTGCGCGGAGAGTGTGTC 780
QY 781 GAAACCTTAACGAGAGCGATCCGCGGAGAGCTGAGGCTCATCAGCTCTGCTCCCTGG 840
DB 781 GAAACCTTAACGAGAGCGATCCGCGGAGAGCTGAGGCTCATCAGCTCTGCTCCCTGG 840
QY 841 GCGATGAGCTACCTTGGCTTCAAGATCTAGGCTGAGGCTGAGTGGGCTGAGG 900
DB 841 GCGATGAGCTACCTTGGCTTCAAGATCTAGGCTGAGGCTGAGTGGGCTGAGG 900
QY 901 GAGGATGCTGAGGAGCGCGGAGAGTGTGAGCTGAGTGTAAATTCGAAATTAAGTGG 960
DB 901 GAGGATGCTGAGGAGCGCGGAGAGTGTGAGCTGAGTGTAAATTCGAAATTAAGTGG 960
QY 961 GCTGTGAGACCAAAAAAAAAAAAAAAAAAAAAA 989
DB 961 GCTGTGAGACCAAAAAAAAAAAAAAAAAAAAAA 989

RESULT 5

US-10-006-818A-305

Sequence 305, Application US/10006818A

Publication No. US20030054406A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2830P1C4

CURRENT APPLICATION NUMBER: US/10/006,818A

CURRENT FILING DATE: 2001-12-06

Prior Application removed - See File Wrapper or Palm

NUMBER OF SEQ ID NOS: 477

SEQ ID NO 305

LENGTH: 989

TYPE: DNA

ORGANISM: Homo sapiens

US-10-006-818A-305

Query Match 100.0%; Score 989; DB 14; Length 989;

Best Local Similarity 100.0%; Pred. No. 5,6e-226; Mismatches 0; Indels 0; Gaps 0;

Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGGCCCGGAGTCCGAGACCTGTCCAGAGCTCCAGCTCACTGACCTGTCACTGCC 60
DB 1 GCGGGCCCGGAGTCCGAGACCTGTCCAGAGCTCCAGCTCACTGACCTGTCACTGCC 60
QY 61 TCCCGCGGCTCTGCGCCCGGCGCATGACCGCGGTGCGCGGCTCTCGTCCCGCGG 120
DB 61 TCCCGCGGCTCTGCGCCCGGCGCATGACCGCGGTGCGCGGCTCTCGTCCCGCGG 120
QY 121 CGCTGGCCCTGGGCTCAGCGCGGAGCTGGGCGCGCTTCCGACCTGGCTCTTCCGGGA 180
DB 121 CGCTGGCCCTGGGCTCAGCGCGGAGCTGGGCGCGCTTCCGACCTGGCTCTTCCGGGA 180
QY 181 GCGGTGTCCTCCCATGAGGCGCGGAGAGTGTCTCTCCCTCCCGAGAGAGCC 240
DB 181 GCGGTGTCCTCCCATGAGGCGCGGAGAGTGTCTCTCCCTCCCGAGAGAGCC 240
QY 241 GCTGTGGAGATCTTCTTGAAGCGCTCAATGGGAGAGACCCGGGCTGCGAAGCTGA 300

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Db      241 GCGTGTGACGATCTTCTAGCCGCTCCATGCGGAGAGACCCGCGCTGCGAAGCTTA 300
QY      301 GCGTGTGACCTCTGAGACAGCCGAGGAGATCTATGATGACTTCGAGCAGGCCAGC 360
Db      301 GCGTGTGACCTCTGAGACAGCCGAGGAGATCTATGATGACTTCGAGCAGGCCAGC 360
QY      361 TCTTGGCGAACCTGCGCGGCTCATCCAGGCGAAGAGCGCTGAGCCTGGGACACTTA 420
Db      361 TCTTGGCGAACCTGCGCGGCTCATCCAGGCGAAGAGCGCTGAGCCTGGGACACTTA 420
QY      421 CGGACTACTCGGCTGAGCCCTGCTGAGCGCTGAGCGCGAGCGCGCTGAGTACT 480
Db      421 CGGACTACTCGGCTGAGCCCTGCTGAGCGCTGAGCGCGAGCGCGCTGAGTACT 480
QY      481 GCGAGGTGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 540
Db      481 GCGAGGTGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 540
QY      541 AGCACAAGATCGACCTCGGCTGAGAGCGGCTTGGAGACCTCGAGCAGTGTGAGCG 600
Db      541 AGCACAAGATCGACCTCGGCTGAGAGCGGCTTGGAGACCTCGAGCAGTGTGAGCG 600
QY      601 CGGCGAGGCGCGGACCTTTCAGCGTGGCGGTGAGTGGAGCAAGAGAACTGCTCCG 660
Db      601 CGGCGAGGCGCGGACCTTTCAGCGTGGCGGTGAGTGGAGCAAGAGAACTGCTCCG 660
QY      661 CTTACTAGAGCGGTGCTGAGCGTGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCG 720
Db      661 CTTACTAGAGCGGTGCTGAGCGTGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCG 720
QY      721 TCTGTGGCGCGGAGGCTGCTGCAACTTCGAAAGGAGCGTGGCGGCGAGTGTGTC 780
Db      721 TCTGTGGCGCGGAGGCTGCTGCAACTTCGAAAGGAGCGTGGCGGCGAGTGTGTC 780
QY      781 GAAACCTAAAGAGAGCGATCGGCGGAGCGTCAAGAGCTTCAACAGCTTCCGCTCG 840
Db      781 GAAACCTAAAGAGAGCGATCGGCGGAGCGTCAAGAGCTTCAACAGCTTCCGCTCG 840
QY      841 GCGATGAGCTCACCTTGGCTTCAAGATCTAGGAGCTGCGGCTGAGTGGCTGAGG 900
Db      841 GCGATGAGCTCACCTTGGCTTCAAGATCTAGGAGCTGCGGCTGAGTGGCTGAGG 900
QY      901 GAGGCTTGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 960
Db      901 GAGGCTTGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 960
QY      961 GCTGGAGACAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 989
Db      961 GCTGGAGACAAAAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 989

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RESULT 6
US-10-015-393A-305
; Sequence 305, Application US/10015393A
; Publication No. US20030069179A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gutney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same

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; FILE REFERENCE: P2830P1C46
; CURRENT APPLICATION NUMBER: US/10/015,393A
; CURRENT FILING DATE: 2002-06-10
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 305
; LENGTH: 989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-393A-305

Query Match      100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCGGCGCGCGAGTCCGAGACTGTCCGAGAGTCCAGCTCAAGTCACTGTCACTGCC 60
Db      1 GCGGCGCGCGAGTCCGAGACTGTCCGAGAGTCCAGCTCAAGTCACTGTCACTGCC 60
QY      61 TCCGCGCGCTCTGCGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 120
Db      61 TCCGCGCGCTCTGCGCGCGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 120
QY      121 CGCTGGCGCTTGGGCTCAGCGGAGCTGGGCGGCGGCTTGGGAGCTGCTCTTCTGG 180
Db      121 CGCTGGCGCTTGGGCTCAGCGGAGCTGGGCGGCGGCTTGGGAGCTGCTCTTCTGG 180
QY      181 GCGGCGTGGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
Db      181 GCGGCGTGGCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY      241 GCTGTGGAGATCTTCTGAGCGGCTTCATGCGGAGGAGGAGGAGGAGGAGGAGGAG 300
Db      241 GCTGTGGAGATCTTCTGAGCGGCTTCATGCGGAGGAGGAGGAGGAGGAGGAGGAG 300
QY      301 GCGTGTGAGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
Db      301 GCGTGTGAGCTCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY      361 TCTTGGCGAACCTGCGCGGCTCATCCAGGCGAAGAGCGCTGAGCCTGGGACACTTCA 420
Db      361 TCTTGGCGAACCTGCGCGGCTCATCCAGGCGAAGAGCGCTGAGCCTGGGACACTTCA 420
QY      421 CGGCTTACTCGGCGGCTGAGCGGCTGAGCGGCTGAGCGGAGCGGAGCGGAGCGG 480
Db      421 CGGCTTACTCGGCGGCTGAGCGGCTGAGCGGCTGAGCGGAGCGGAGCGGAGCGG 480
QY      481 GCGAGGTGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 540
Db      481 GCGAGGTGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 540
QY      541 AGCACAAGATCGACCTCGGCTGAGAGCGGCTTGGAGACCTCGAGCAGAGTGTGAG 600
Db      541 AGCACAAGATCGACCTCGGCTGAGAGCGGCTTGGAGACCTCGAGCAGAGTGTGAG 600
QY      601 CGGCGAGGCGCGGACCTTTCAGCGTGGCGGTGAGTGGAGCAAGAGAACTGCTCCG 660
Db      601 CGGCGAGGCGCGGACCTTTCAGCGTGGCGGTGAGTGGAGCAAGAGAACTGCTCCG 660
QY      661 CTTACTAGAGCGGTGCTGAGCGTGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 720
Db      661 CTTACTAGAGCGGTGCTGAGCGTGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 720
QY      721 TCTGTGGCGCGGAGGCTGCTGCAACTTCGAAAGGAGCGTGGCGGCGAGTGTGTC 780
Db      721 TCTGTGGCGCGGAGGCTGCTGCAACTTCGAAAGGAGCGTGGCGGCGAGTGTGTC 780
QY      781 GAAACCTAAAGAGAGCGATCGGCGGAGCGTCAAGAGCTTCAACAGCTTCCGCTCG 840
Db      781 GAAACCTAAAGAGAGCGATCGGCGGAGCGTCAAGAGCTTCAACAGCTTCCGCTCG 840
QY      841 GCGATGAGCTCACCTTGGCTTCAAGATCTAGGAGCTGCGGCTGAGTGGCTGAGG 900

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Db 841 GCGATGACCTACCTTGCCCTTCAAGATCTAGGGCTGCCCCCTAGTGAAGTGGCTGAGG 900
QY 901 GAGGGTTCCTGGAGACCCGAGAAATTGACCTTGAGTTTAAATTGCAAAATAAAGTGGG 960
Db 901 GAGGGTTCCTGGAGACCCGAGAAATTGACCTTGAGTTTAAATTGCAAAATAAAGTGGG 960
QY 961 GCTGGGACACAAAAAATTT 989
Db 961 GCTGGGACACAAAAAATTT 989

RESULT 7

US-10-015-869A-305
; Sequence 305, Application US/10015869A
; Publication No. US20030073130A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C45
; CURRENT APPLICATION NUMBER: US/10/015.869A
; PRIORITY FILING DATE: 2002-06-25
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 305
; LENGTH: 989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-015-869A-305

Query Match 100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGGCCCCGGAGTCGAGACTGTCCAGAGCTCCAGACTCCAGCTGCACTGCACTGCGC 60
Db 1 GCGGGCCCCGGAGTCGAGACTGTCCAGAGCTCCAGAGCTCCAGCTGCACTGCACTGCGC 60
QY 61 TCCGCGCGCTCTCTGCGCGCGCATGACCCAGCCGCGTGCCTCTCTGCGCGCGCG 120
Db 61 TCCGCGCGCTCTCTGCGCGCGCATGACCCAGCCGCGTGCCTCTCTGCGCGCGCG 120
QY 121 CGCTGGCCCTGGGCTGAGCCGCACTGGGCGCCGCTTGGCACTGGGCTTTCTTGGGA 180
Db 121 CGCTGGCCCTGGGCTGAGCCGCACTGGGCGCCGCTTGGCACTGGGCTTTCTTGGGA 180
QY 121 CGCTGGCCCTGGGCTGAGCCGCACTGGGCGCCGCTTGGCACTGGGCTTTCTTGGGA 180
Db 121 CGCTGGCCCTGGGCTGAGCCGCACTGGGCGCCGCTTGGCACTGGGCTTTCTTGGGA 180
QY 181 GGGGCTGCCCCCATGCGAGGCGCGGAGAGAGTGCCTGCTTCCCCCGAGAGACAGCC 240
Db 181 GGGGCTGCCCCCATGCGAGGCGCGGAGAGAGTGCCTGCTTCCCCCGAGAGACAGCC 240
QY 241 GCGTGGCGAGTATCTTCTTATGACCGCTCCATGCGGAGACCCGCGGCTGCGAAGCTTA 300
Db 241 GCGTGGCGAGTATCTTCTTATGACCGCTCCATGCGGAGACCCGCGGCTGCGAAGCTTA 300
QY 301 GGGTGTGACCTCTGAGACAGCCGCAAGGCGGATTCTATGATGACCTGCGAGAGCCCAAG 360
Db 301 GGGTGTGACCTCTGAGACAGCCGCAAGGCGGATTCTATGATGACCTGCGAGAGCCCAAG 360
QY 361 TCTTGGCAACCTGCGCGGCTCATCGAGCCAAAGGCGCTGAGACTGGGCACTTCA 420
Db 361 TCTTGGCAACCTGCGCGGCTCATCGAGCCAAAGGCGCTGAGACTGGGCACTTCA 420

Db 361 TCTTGGCAACCTGCGCGGCTCATCGAGCCAAAGGCGCTGAGACTGGGCACTTCA 420
QY 421 CGGGTACTGCGCCCTGGCCCTGAGCTGCGCTGCGCGAGAGCGCGCTGTGACT 480
Db 421 CGGGTACTGCGCCCTGGCCCTGAGCTGCGCTGCGCGAGAGCGCGCTGTGACT 480
QY 481 GCGAGTGAAGCGAGACCCCGGAGCTGGAGAGCGCCCTGTGAGAGGAGCGAGCGG 540
Db 481 GCGAGTGAAGCGAGACCCCGGAGCTGGAGAGCGCCCTGTGAGAGGAGCGAGCGG 540
QY 541 AGCACAAGATGACCTTCCGCTGAAGCCGCTTGAAGACCTGAGACGAGCTGCGCGG 600
Db 541 AGCACAAGATGACCTTCCGCTGAAGCCGCTTGAAGACCTGAGACGAGCTGCGCGG 600
QY 601 CGGGCGAGCGCGGACCTTCAAGCTGCGCTGCGAGAGCGAGAGAGAGAGAGAGAG 660
Db 601 CGGGCGAGCGCGGACCTTCAAGCTGCGCTGCGAGAGCGAGAGAGAGAGAGAGAG 660
QY 661 CCTACTAGAGGCGCTGAGAGCTGCGAGAGCGAGAGAGAGAGAGAGAGAGAGAG 720
Db 661 CCTACTAGAGGCGCTGAGAGCTGCGAGAGCGAGAGAGAGAGAGAGAGAGAGAG 720
QY 721 TCTTGTGCGCGCGAGAGGCTGCAACCTCCGAAAGGAGAGCTGCGCGAGAGAG 780
Db 721 TCTTGTGCGCGCGAGAGGCTGCAACCTCCGAAAGGAGAGCTGCGCGAGAGAG 780
QY 781 GAAACCTAAAG 840
Db 781 GAAACCTAAAG 840
QY 841 GCGATGACCTGACCTTGAAGATCTAGAGCTGAGCCCTAGTGAAGTGGCTGAGG 900
Db 841 GCGATGACCTGACCTTGAAGATCTAGAGCTGAGCCCTAGTGAAGTGGCTGAGG 900
QY 901 GAGGGTTCCTGGAGACCCGAGAAATTGACCTTGAGTTTAAATTGCAAAATAAAGTGG 960
Db 901 GAGGGTTCCTGGAGACCCGAGAAATTGACCTTGAGTTTAAATTGCAAAATAAAGTGG 960
QY 961 GCTGGGACACAAAAAATTT 989
Db 961 GCTGGGACACAAAAAATTT 989

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US-10-012-121A-305
; Sequence 305, Application US/10012121A
; Publication No. US20030073810A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C20
; CURRENT APPLICATION NUMBER: US/10/012.121A
; PRIORITY FILING DATE: 2001-12-07
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 305
; LENGTH: 989
; TYPE: DNA
; ORGANISM: Homo sapiens

Thu Apr 15 09:23:56 2004

us-10-017-407a-305.rnpb

Page 8

US-10-012-121A-305

Query Match 100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5.5e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 TCCCGCGCCCTCTCCGCGCCGCGCATGACCCGCGTGGCCCGCTCTCCGCGCCG 120
QY 121 CGCTGACCCCTGGGCTCAGCCGCGACCTGGGCGCGCTTCCGCACTGGCTCTTCCG 180
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QY 781 GAAACCTTAAAGAGAGCATCCGCGGCGAGCGTCAAGGCTTACATAGAGCTCTGCGCTTGC 840
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DB 841 GCGATGAGCTACCTTGGCTTCAAGATCTAGGCGTGGCCCTTGTAGTGTGAGGCTGAGG 900
QY 901 GAGGCTTGGCTGGGAGACCCGAGGAGTGAACCTGAGTTTAAATTCGAAATTAAGTGG 960
DB 901 GAGGCTTGGCTGGGAGACCCGAGGAGTGAACCTGAGTTTAAATTCGAAATTAAGTGG 960
QY 961 GCTGGAGACCAAAAAAAAAAAAAA 989
DB 961 GCTGGAGACCAAAAAAAAAAAAAA 989
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Sequence 305, Application US/10006116A
GENERAL INFORMATION:
Publication No. US20030082626A1
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Feng, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P15
CURRENT APPLICATION NUMBER: US/10/006,116A
CURRENT FILING DATE: 2001-12-16
PRIOR APPLICATION NUMBER: 60/098716
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PRIOR APPLICATION NUMBER: 60/106023
PRIOR FILING DATE: 1998-10-28

Query Match 100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226; Indels 0; Gaps 0;
Matches 989; Conservative 0; Mismatches 0;

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QY 121 CGCTGCGCTGAGCTCAGCCGCGACTGAGCGCGCGCTTCCGCACTGAGCTTCTTGGGGA 180

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Page 10

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Qy	301	GGCTGTCGACACCTTGAGAGGACCGCGAGGGGAGATTCTATATGACCTGCGAGACAGGCCAGC	360
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Qy	361	TCTTGGCCAACTTGGCGGCGCTTCATCAGAGCCAGAAAGGCGCTGAGACTGTGGACCTTTCA	420
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Qy	421	CGGGGCTACTCGGCGCTTGGGCGCTGGGCGCTGGCGGCGCGGAGCGGCGGCTGGATGA	480
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Qy	781	GAAAACCTAAAGCAAGCATTCGGCGGAGAGGTCAAGAGGTCTACATCAGCTCTGTGCCCTTGG	840
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Qy	841	GCGATGGAATCAGCTTGTGGCTTCAAGATCTAAGGAGCTGACCTTATGATGATGGGCTCGAGG	900
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US-10-006-117A-305
 ; Sequence 305, Application US/10006117A
 ; Publication No. US20030082627A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Batshein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan I.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.

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Best Local Similarity	100.0%	Pred. NO.5.6e-226		
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			Gaps 0	
APPLICANT: Grimaldi, Christopher J.				
APPLICANT: Gurney, Austin L.				
APPLICANT: Hillan, Kenneth J.				
APPLICANT: Pan, James				
APPLICANT: Piont, Nicholas F.				
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic				
TITLE OF INVENTION: Acids Encoding the Same				
FILE REFERENCE: P2830P13				
CURRENT APPLICATION NUMBER: US/10/006,117A				
CURRENT FILING DATE: 2002-03-19				
Prior Application removed - See File Wrapper or Palm				
PRIOR FILING DATE: 2001-07-09				
NUMBER OF SEQ ID NOS: 477				
SEQ ID NO 305				
LENGTH: 989				
TYPE: DNA				
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US-10-006-117A-305				
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RESULT 11
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; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hallan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
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; PRIOR FILING DATE: 1998-09-22
; PRIOR APPLICATION NUMBER: 60/101479
; PRIOR FILING DATE: 1998-09-22
; PRIOR APPLICATION NUMBER: 60/101738
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101741
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; PRIOR APPLICATION NUMBER: 60/101743
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101915
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101916

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PRIOR FILING DATE:	1998-09-24
PRIOR APPLICATION NUMBER:	60/102207
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PRIOR APPLICATION NUMBER:	60/102307
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PRIOR APPLICATION NUMBER:	60/102330
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PRIOR APPLICATION NUMBER:	60/102331
PRIOR FILING DATE:	1998-09-29
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PRIOR APPLICATION NUMBER:	60/102687
PRIOR FILING DATE:	1998-10-01
PRIOR APPLICATION NUMBER:	60/102965
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PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105104
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PRIOR APPLICATION NUMBER:	60/105169
PRIOR FILING DATE:	1998-10-22
PRIOR APPLICATION NUMBER:	60/105266
PRIOR FILING DATE:	1998-10-22
PRIOR APPLICATION NUMBER:	60/105633
PRIOR FILING DATE:	1998-10-26
PRIOR APPLICATION NUMBER:	60/105694
PRIOR FILING DATE:	1998-10-26
PRIOR APPLICATION NUMBER:	60/105807
PRIOR FILING DATE:	1998-10-27
PRIOR APPLICATION NUMBER:	60/105881
PRIOR FILING DATE:	1998-10-27
PRIOR APPLICATION NUMBER:	60/105882
PRIOR FILING DATE:	1998-10-27

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      PRIOR APPLICATION NUMBER: 60/106023
      PRIOR FILING DATE: 1998-10-28

Query Match      100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5.6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1 GGGGGCCCGGAGTCCGAGACCTTGCCCGAGGAGCTCCAGCTCAAGTACCTGTCACTGCG 60
DB      1 GGGGGCCCGGAGTCCGAGACCTGTGCCGAGAGCTCCAGCTCACTGACCTGTCACTGCG 60
QY      61 TCCGCGCGCTCTGCGCCCGGCGCATGACCAGCGCGTGCCTTCCGTGCGCCGCG 120
DB      61 TCCGCGCGCTCTGCGCGCGCGCATGACCAGCGCGTGCCTTCCGTGCGCCGCG 120
QY      121 CGCTGCGCCCTGAGGCTCAGCGCGCATGCGGCGCGCGCTTGCGCATGCGGCTCTTCCGAGGGA 180
DB      121 CGCTGCGCCCTGAGGCTCAGCGCGCATGCGGCGCGCGCTTGCGCATGCGGCTCTTCCGAGGGA 180
QY      181 GGCGGTGCGCCCGCATGCGGAGCGCGCGCGAGAGAGCAGTGTGCTGTTCCCGGAGAGCAGCC 240
DB      181 GGCGGTGCGCCCGCATGCGGAGCGCGCGCGAGAGAGCAGTGTGCTGTTCCCGGAGAGCAGCC 240
QY      241 GCTGTGCGCATGATTTCTTGAGCGCGCTCAATGCGGAGAGCAGCGCGCTGCGCAAGCTTGA 300
DB      241 GCTGTGCGCATGATTTCTTGAGCGCGCTCAATGCGGAGAGCAGCGCGCTGCGCAAGCTTGA 300
QY      301 GCGTGTACCCCTGAGAGAGCGCGCGAGGAGATTTCTATGATGACCTGCGAGCAGCGCCAGC 360
DB      301 GCGTGTACCCCTGAGAGAGCGCGCGAGGAGATTTCTATGATGACCTGCGAGCAGCGCCAGC 360
QY      361 TCTTGGCCAACTGTGGCGCGGCTCATTCAGGCCAGAGGCGGCTGACCTTGGCACTTTCA 420
DB      361 TCTTGGCCAACTGTGGCGCGGCTCATTCAGGCCAGAGGCGGCTGACCTTGGCACTTTCA 420
QY      421 CGGCGTATTCGCGCCCTTGCGCGCTGCGCGCTGCGCGCTGCGCGAGCGCGGAGCGGAGCTGAGCT 480
DB      421 CGGCGTATTCGCGCCCTTGCGCGCTGCGCGCTGCGCGCTGCGCGAGCGCGGAGCGGAGCTGAGCT 480
QY      481 GCGAGGTGAGCGCGCAGCGCCCGCGAGCTTGAGCGCGCCCTGTGAGAGCAGGCGGAGCGG 540
DB      481 GCGAGGTGAGCGCGCAGCGCCCGCGAGCTTGAGCGCGCCCTGTGAGAGCAGGCGGAGCGG 540
QY      541 AGCACAAGATGACCTCCGCGCTGAGAGCGCCGCTTGGAGACCTTGACAGAGCTGTGGGCGG 600
DB      541 AGCACAAGATGACCTCCGCGCTGAGAGCGCCGCTTGGAGACCTTGAGAGCTGTGGGCGG 600
QY      601 CGGGCGAGGCGCGGACCTTCCAGCTGTGCGCGTGTGATGATGCGGACAGAGGAACTGCTCCG 660
DB      601 CGGGCGAGGCGCGGACCTTCCAGCTGTGCGCGTGTGATGATGCGGACAGAGGAACTGCTCCG 660
QY      661 CCTACTACGAGCGCTGCGCTGCGAGCTGTGTGCGACCCGAGAGGACATCTCTGCGCTCTCAGAG 720
DB      661 CCTACTACGAGCGCTGCGCTGCGAGCTGTGTGCGACCCGAGAGGACATCTCTGCGCTCTCAGAG 720
QY      721 TCCGTGCGGCGGAGAGGTGTGCAACTCCGAAAGGGGAGCGTGGCGGCGCGAGTGTGTGC 780
DB      721 TCCGTGCGGCGGAGAGGTGTGTGCAACTCTCCAAAGGGGAGCGTGGCGGCGCGAGTGTGTGC 780
QY      781 GAAACCTTAAACGAGCGCATCTCGGCGGAGCGTCAAGGTTTACATCAGCTTCTGCGCCCTG 840
DB      781 GAAACCTTAAACGAGCATCTCGGCGGAGCGTCAAGGTTTACATCAGCTTCTGCGCCCTG 840
QY      841 GGGAGGAGATCACTTTGGCGCTCAAGATATAGGCGCGCGCTAGTGAAGTGGGCTCGAGG 900
DB      841 GGGAGGAGATCACTTTGGCGCTCTTCAAGATTTAGGCGCTGCGCTTGAAGTGGGCTCGAGG 900
QY      901 GAGGCTTGCCTGAGAACCCGAGAAATTGACCTCGAATTTTAAATTCGAAAAATTAAATGGG 960
DB      901 GAGGCTTGCCTGAGAACCCGAGAAATTGACCTCGAATTTTAAATTCGAAAAATTAAATGGG 960
QY      961 GCTGGAGCAAAAAAAAAAAAAAAAAAAAAA 989
DB      961 GCTGGAGCAAAAAAAAAAAAAAAAAAAAAA 989

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Db 961 GCTGGACACAAAAA 989

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RESULT 12
US-10-013-913A-305
; Sequence 305, Application US/10013913A
; Publication No. US20030083462A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Gurney, Austin J.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C40
; CURRENT APPLICATION NUMBER: US/10/013,913A
; PRIOR FILING DATE: 2002-07-15
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 305
; LENGTH: 989
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-013-913A-305
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Query Match 100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5.6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 GCGGGCCCGGAGTCCGAGACCTGTCCAGAGCTCCAGTCACTGACCTGTCACTGCC 60
Db 1 GCGGGCCCGGAGTCCGAGACCTGTCCAGAGCTCCAGTCACTGACCTGTCACTGCC 60
QY 61 TCCCGCCGCTCCCTCCGCGCCGCTGACACCAAGCCGCGCTCCGCTCCGCGCGCG 120
Db 61 TCCCGCCGCTCCCTCCGCGCCGCTGACACCAAGCCGCGCTCCGCTCCGCGCGCG 120
QY 121 CGCTGGCCCTGGGCTCAGCCGCACTGGGCGCCGCTTCGCACTGGGCTCTTCTG3GGA 180
Db 121 CGCTGGCCCTGGGCTCAGCCGCACTGGGCGCCGCTTCGCACTGGGCTCTTCTG3GGA 180
QY 181 GCGCGTGCCTCCCATGCGGAGCCGCGGAGAGCATGCTCTTCCCGGAGAGACGCC 240
Db 181 GCGCGTGCCTCCCATGCGGAGCCGCGGAGAGCATGCTCTTCCCGGAGAGACGCC 240
QY 241 GCGTGTGGAGTACTTCTTGAGCCGCTTCATGCGGAGAGACCGCGCTCGAAGCCTGA 300
Db 241 GCGTGTGGAGTACTTCTTGAGCCGCTTCATGCGGAGAGACCGCGCTCGAAGCCTGA 300
QY 301 GCGTGTGACCTTGAGAGACGCGGAGGAGTTCTATGATGACTGTGAGAGAGCCAGC 360
Db 301 GCGTGTGACCTTGAGAGACGCGGAGGAGTTCTATGATGACTGTGAGAGAGCCAGC 360
QY 361 TCTTGGCCCAACCTGCGCGGCTCATTCAGAGCCAGAGAGGCGTGGACCTG3GCACTTCA 420
Db 361 TCTTGGCCCAACCTGCGCGGCTCATTCAGAGCCAGAGAGGCGTGGACCTG3GCACTTCA 420
QY 421 CGGGCTACTCCGCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTT 480
Db 421 CGGGCTACTCCGCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTT 480
QY 481 GCGAGTGGAGCGCGCAGCCCGCCGAGCTGGAGCGGCCCTGTGAGGCAAGCGGAGGCGG 540
Db 481 GCGAGTGGAGCGCGCAGCCCGCCGAGCTGGAGCGGCCCTGTGAGGCAAGCGGAGGCGG 540
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Db 481 GCGAGTGGAGCGCGCAGCCCGCCGAGCTGGAGCGGCCCTGTGAGGCAAGCGGAGGCGG 540
QY 541 AGCACAAGATGACCTCTCCGCTGAAAGCCCGCTTGGAGACCTCTGAGACGAGTGTGGGG 600
Db 541 AGCACAAGATGACCTCTCCGCTGAAAGCCCGCTTGGAGACCTCTGAGACGAGTGTGGGG 600
QY 601 CGGGCGAGGCGCGACCTTCCAGCGTGGCGCTGTGATGCGAGACAGAGAGATGCTCCG 660
Db 601 CGGGCGAGGCGCGACCTTCCAGCGTGGCGCTGTGATGCGAGACAGAGAGATGCTCCG 660
QY 661 CCTACTAGAGCGCTGCTGCAAGCTGCTGCAAGCCCGAGGAGATCTCTGCGCTCTGAG 720
Db 661 CCTACTAGAGCGCTGCTGCAAGCTGCTGCAAGCCCGAGGAGATCTCTGCGCTCTGAG 720
QY 721 TCCCTGGCGGAGGAGTGTGCAAGCTTCCGAAAGGAGAGCTGAGCGGCGGAGTGTGC 780
Db 721 TCCCTGGCGGAGGAGTGTGCAAGCTTCCGAAAGGAGAGCTGAGCGGCGGAGTGTGC 780
QY 781 GAAACCTTAACGACGATCCGCGGAGCGTCAAGGCTCAATCATGAGCTCTGCGCTTGG 840
Db 781 GAAACCTTAACGACGATCCGCGGAGCGTCAAGGCTCAATCATGAGCTCTGCGCTTGG 840
QY 841 GCGATGAGCTACCTTGGGCTTCAAGATCTAGGCTGAGGCTGAGTGGGCTCGAGG 900
Db 841 GCGATGAGCTACCTTGGGCTTCAAGATCTAGGCTGAGGCTGAGTGGGCTCGAGG 900
QY 901 GAGGTTGCTGCGGAGCCCGAGATTTGAGTTTAAATCGAAATTAAGTGGG 960
Db 901 GAGGTTGCTGCGGAGCCCGAGATTTGAGTTTAAATCGAAATTAAGTGGG 960
QY 961 GCTGGACACAAAAA 989
Db 961 GCTGGACACAAAAA 989
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RESULT 13
US-10-007-194A-305

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; Sequence 305, Application US/10007194A
; Publication No. US20030092061A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, Paul J.
; APPLICANT: Gurney, Austin J.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C6
; CURRENT APPLICATION NUMBER: US/10/007,194A
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
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PRIOR APPLICATION NUMBER: 60/105104
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PRIOR APPLICATION NUMBER: 60/105266
PRIOR FILING DATE: 1998-10-22
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PRIOR FILING DATE: 1998-10-26
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PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/105882
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/106023
PRIOR FILING DATE: 1998-10-28

Query Match 100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGGGCGGAGCTTCCAGACCTTCCAGAGCTTCAAGTCAAGTCACTGCTTCACTGCG 60
DB 1 GCGGGGCGGAGCTTCCAGACCTTCCAGAGCTTCAAGTCAAGTCACTGCTTCACTGCG 60
QY 61 TCCCGCGGCTCTGCGCGCGCATGACCGAGCGAGTCCCGGCTCTCCGTCGCGCG 120
DB 61 TCCCGCGGCTCTGCGCGCGCATGACCGAGCGAGTCCCGGCTCTCCGTCGCGCGCG 120
QY 121 CGTGGCCCTTGGGCTCAAGCGCACTGGGCGCGCTTTCGCACTGGCTTCTTCGAG 180
DB 121 CGTGGCCCTTGGGCTCAAGCGCACTGGGCGCGCTTTCGCACTGGCTTCTTCGAG 180
QY 181 GCGGGGCGGCGGAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 GCGGGGCGGCGGAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 GCGTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 300
DB 241 GCGTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 300
QY 301 GCGTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 360
DB 301 GCGTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 360
QY 361 TCTTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 420
DB 361 TCTTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 420
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DB 421 CGGGGCTTCCGCGGCTTCCGCGGCTTCCGCGGCTTCCGCGGCTTCCGCGGCTT 480
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DB 481 GCGAGTGGAGCGGAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
QY 541 AGCACAAGATGAGCTTCCGCTGAGAGCGGCTTTCGAGAGAGAGAGAGAGAGAG 600
DB 541 AGCACAAGATGAGCTTCCGCTGAGAGCGGCTTTCGAGAGAGAGAGAGAGAGAG 600
QY 601 CGGGGAGAGCGGAGCGGCTTTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
DB 601 CGGGGAGAGCGGAGCGGCTTTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 660
QY 661 CTTACTAGAGAGCTTTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
DB 661 CTTACTAGAGAGCTTTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
QY 721 TCTTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 780
DB 721 TCTTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 780

DB 721 TCTTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAG 780
QY 781 GAAACCTTAAG 840
DB 781 GAAACCTTAAG 840
QY 841 GCGATGAGATCACTTGGGCTTCAAGATCTAGAGCTGAGAGAGAGAGAGAGAGAG 900
DB 841 GCGATGAGATCACTTGGGCTTCAAGATCTAGAGCTGAGAGAGAGAGAGAGAGAG 900
QY 901 GAGGCTTCCGCGGAG 960
DB 901 GAGGCTTCCGCGGAG 960
QY 961 GCTGGGAG 989
DB 961 GCTGGGAG 989

RESULT 14
US-10-013-430A-305
Sequence 305, Application US/10013430A
Publication No. US20030092883A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoli, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C31
CURRENT APPLICATION NUMBER: US/10/013,430A
PRIORITY FILING DATE: 2002-06-25
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 305
LENGTH: 989
TYPE: DNA
ORGANISM: Homo sapiens
US-10-013-430A-305

Query Match 100.0%; Score 989; DB 14; Length 989;
Best Local Similarity 100.0%; Pred. No. 5,6e-226;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGGGCGGAGCTTCCAGACCTTCCAGAGCTTCAAGTCAAGTCACTGCTTCACTGCG 60
DB 1 GCGGGGCGGAGCTTCCAGACCTTCCAGAGCTTCAAGTCAAGTCACTGCTTCACTGCG 60
QY 61 TCCCGCGGCTCTGCGCGCGCATGACCGAGCGAGTCCCGGCTCTCCGTCGCGCG 120
DB 61 TCCCGCGGCTCTGCGCGCGCATGACCGAGCGAGTCCCGGCTCTCCGTCGCGCGCG 120
QY 121 CGTGGCCCTTGGGCTCAAGCGCACTGGGCGCGCTTTCGCACTGGCTTCTTCGAG 180
DB 121 CGTGGCCCTTGGGCTCAAGCGCACTGGGCGCGCTTTCGCACTGGCTTCTTCGAG 180
QY 181 GCGGGGCGGCGGAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
DB 181 GCGGGGCGGCGGAGCGGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
QY 241 GCGTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAGAG 300
DB 241 GCGTGGGAGATCTTCTGAGCGGCTTCATGCGGAGAGAGAGAGAGAGAGAGAGAG 300

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Db 241 GCCTGTGAGATATCTTCTGAGCCGCTCCATGCGGAGACCCGCGCTGCGAAGCTGA 300
QY 301 GGTCTGTGACCTCTGAGACGACCCGAGGGGATCTTATGATGACTTGGAGAGAGCCGAGC 360
Db 301 GGTCTGTGACCTCTGAGACGACCCGAGGGGATCTTATGATGACTTGGAGAGAGCCGAGC 360
QY 361 TCTTGGCAACCTGAGCGCGCTCATCGAGGCAAGAAGCGCTGAGACTGAGGCACTTCA 420
Db 361 TCTTGGCAACCTGAGCGCGCTCATCGAGGCAAGAAGCGCTGAGACTGAGGCACTTCA 420
QY 421 CGGACTACTCGCCCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 480
Db 421 CGGACTACTCGCCCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 480
QY 481 GCGAGGTGAGACGCGACACCCCGAGAGCTGAGACGCGCCCTGTGAGAGCGAGCGAGCGG 540
Db 481 GCGAGGTGAGACGCGACACCCCGAGAGCTGAGACGCGCCCTGTGAGAGCGAGCGAGCGG 540
QY 541 AGCACAAGATCGACTCGGCTGAGAGCGCGCTTGAAGACCTTGAAGACGAGCTGCGCGG 600
Db 541 AGCACAAGATCGACTCGGCTGAGAGCGCGCTTGAAGACCTTGAAGACGAGCTGCGCGG 600
QY 601 CGGCGAGAGCGCGACCTTGAAGAGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 660
Db 601 CGGCGAGAGCGCGACCTTGAAGAGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 660
QY 661 CCTACTAGAGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 720
Db 661 CCTACTAGAGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 720
QY 721 TCTGTGTGCGCGGAGAGCTGCTGGAACCTCGGAAAGGAGCGAGCGCGCGAGTGTGCG 780
Db 721 TCTGTGTGCGCGGAGAGCTGCTGGAACCTCGGAAAGGAGCGAGCGCGAGTGTGCG 780
QY 781 GAACTCTAAAGAGAGCGATCGGCGGAGCGCTCAAGGCTCTCATCAGCTTCTGCTGAG 840
Db 781 GAACTCTAAAGAGAGCGATCGGCGGAGCGCTCAAGGCTCTCATCAGCTTCTGCTGAG 840
QY 841 GCGATGAGACTGACTTGGCTTCAAGATCTAGAGGCTGCGCGCTGAGAGTGTGAGG 900
Db 841 GCGATGAGACTGACTTGGCTTCAAGATCTAGAGGCTGCGCGCTGAGAGTGTGAGG 900
QY 901 GAGGTTGCTGAGGAGCGCGGAGATGAGCTTGAATGCGAAATTAAGTGGG 960
Db 901 GAGGTTGCTGAGGAGCGCGGAGATGAGCTTGAATGCGAAATTAAGTGGG 960
QY 961 GCTGGAGACACAAAAA 989
Db 961 GCTGGAGACACAAAAA 989

RESULT 15
US-10-011-671A-305
; Sequence 305, Application US/10011671A
; Publication No. US20030096954A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Guiney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Paoletti, Nicholas F.
; APPLICANT: Paoli, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC27

;; CURRENT APPLICATION NUMBER: US/10/011,671A
;; CURRENT FILING DATE: 2002-06-10
;; PRIOR APPLICATION NUMBER: 60/098716
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098723
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098749
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098750
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098803
;; PRIOR FILING DATE: 1998-09-02
;; PRIOR APPLICATION NUMBER: 60/098821
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;; PRIOR APPLICATION NUMBER: 60/099792
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099808
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099812
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099815
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099816
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;; PRIOR APPLICATION NUMBER: 60/100915
;; PRIOR FILING DATE: 1998-09-17
;; PRIOR APPLICATION NUMBER: 60/100930

PRIOR FILING DATE:	1998-09-17
PRIOR APPLICATION NUMBER:	60/120101.4
PRIOR FILING DATE:	1998-09-18
PRIOR APPLICATION NUMBER:	60/101068.6
PRIOR FILING DATE:	1998-09-18
PRIOR APPLICATION NUMBER:	60/101071.1
PRIOR FILING DATE:	1998-09-18
PRIOR APPLICATION NUMBER:	60/110279.9
PRIOR FILING DATE:	1998-09-22
PRIOR APPLICATION NUMBER:	60/101471.1
PRIOR FILING DATE:	1998-09-23
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PRIOR FILING DATE:	1998-09-23
PRIOR APPLICATION NUMBER:	60/101474.4
PRIOR FILING DATE:	1998-09-23
PRIOR APPLICATION NUMBER:	60/101475.5
PRIOR FILING DATE:	1998-09-23
PRIOR APPLICATION NUMBER:	60/101476.6
PRIOR FILING DATE:	1998-09-23
PRIOR APPLICATION NUMBER:	60/101477.7
PRIOR FILING DATE:	1998-09-23
PRIOR APPLICATION NUMBER:	60/101479.9
PRIOR FILING DATE:	1998-09-23
PRIOR APPLICATION NUMBER:	60/101738.8
PRIOR FILING DATE:	1998-09-24
PRIOR APPLICATION NUMBER:	60/101741.1
PRIOR FILING DATE:	1998-09-24
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PRIOR FILING DATE:	1998-09-24
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PRIOR FILING DATE:	1998-09-24
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PRIOR APPLICATION NUMBER:	60/102454.4
PRIOR FILING DATE:	1998-09-30
PRIOR APPLICATION NUMBER:	60/102457.7
PRIOR FILING DATE:	1998-09-30
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PRIOR FILING DATE:	1998-09-30
PRIOR APPLICATION NUMBER:	60/102571.1
PRIOR FILING DATE:	1998-09-30
PRIOR APPLICATION NUMBER:	60/102654.4
PRIOR FILING DATE:	1998-10-01
PRIOR APPLICATION NUMBER:	60/102657.7
PRIOR FILING DATE:	1998-10-01
PRIOR APPLICATION NUMBER:	60/102965.5
PRIOR FILING DATE:	1998-10-02
PRIOR APPLICATION NUMBER:	60/103258.8
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PRIOR APPLICATION NUMBER:	60/103314.4
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PRIOR APPLICATION NUMBER:	60/103336.6
PRIOR FILING DATE:	1998-10-07
PRIOR APPLICATION NUMBER:	60/103401.1
PRIOR FILING DATE:	1998-10-07
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PRIOR FILING DATE:	1998-10-06
PRIOR APPLICATION NUMBER:	60/103449.9
PRIOR FILING DATE:	1998-10-06

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PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/1036788
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/1036797
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/1037311
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/1042557
PRIOR FILING DATE: 1998-10-14
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PRIOR APPLICATION NUMBER: 60/1058070
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/1058881
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/1058822
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/1060233
PRIOR FILING DATE: 1998-10-28

Query Match	100.0%;	Score 989;	DB 14;	Length 989;
Best Local Similarity	100.0%;	Pred. No. 5.6e-226;		
Matches 989;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	GGGGGGCCGAGTGGCCGAGACCTGGTCCAGGAGGCTCCAGCTCAAGTAACTGGTCACTGGC	60
Db	1	GGGGCCCGGAGTCCGAGACTCGGAGACTCTCCAGGAGACTCCAGCTCAAGTAACTGGTCACTGGC	60
QY	61	TTCCCGCGCTTCTGTCCTCCGCGCATGACCCAGCTGGTGCTCCGGCTTCTCGTGGCCGCG	120
Db	61	TTCCCGCGCTTCTGTCCTCCGCGCATGACCCAGCTGGTGCTCCGGCTTCTCGTGGCCGCG	120
QY	121	CGCTGGACCTTGAGGCTCAGCCGCACTGGGGCGCGGCTTTCGCACATGAGCTTTCCTTGAGGA	180
Db	121	CGCTGGACCTTGAGGCTCAGCCGCACTGGGGCGCGGCTTTCGCACATGAGCTTTCCTTGAGGA	180
QY	181	GGCGGTGCCCCCATATGCGGAGGCGCGGCGAGAGCATGCTCTTCCCGCCGAGACAGCC	240
Db	181	GGCGGTGCCCCCATATGCGGAGGCGCGGCGAGAGCATGCTCTTCCCGCCGAGACAGCC	240
QY	241	GGCTTGAGCAGTATCTTCTGAGCGCTTCATGCGGAGCAACCGCGCTTTCGAAAGCTGA	300
Db	241	GGCTTGAGCAGTATCTTCTGAGCGCTTCATGCGGAGCAACCGCGCTTTCGAAAGCTGA	300
QY	301	GGGTGTGACCTTGAGAGACGCGAGGGGGGATTCTATGATGACCTTGAGAGAGGCGCAGC	360
Db	301	GGGTGTGACCTTGAGAGACGCGAGGGGGGATTCTATGATGACCTTGAGAGAGGCGCAGC	360
QY	361	TCTTGGCCAACTGGGCGCGGCTCATCGAGCCAGAGAGCGCTTGACTTGGGCACTTCA	420
Db	361	TCTTGGCCAACTGGGCGCGGCTCATCGAGCCAGAGAGCGCTTGACTTGGGCACTTCA	420
QY	421	CGGAGTAACTCCGCTTGACCTTGAGGCTTGCGCTGAGCCGCGAGACGAGCGGCTGATGA	480
Db	421	CGGAGTAACTCCGCTTGAGGCTTGAGGCTTGCGCTGAGCCGCGAGACGAGCGGCTGATGA	480
QY	481	GGGAGTGAACCGGAGCCCGCGAGACTTGGACGGCCCTTGGAGGCAAGCGGAGGCGG	540

Db 481 GCGAGGTGACGCGCAGCCCCCGGAGCTGGGACGCCCCCTGTGAGGACAGCCGAGGCGG 540
Qy 541 AGCACAAGATGACCTCCGCGCTGAAGCCCGCCTTGAAGACCCTGAGCAGCTGTGTGGCGG 600
Db 541 AGCACAAGATGACCTCCGCGCTGAAGCCCGCCTTGAAGACCCTGAGCAGCTGTGTGGCGG 600
Qy 601 CGGCGAGGCGCGGACCTTGAAGCTGTGCGCTGTGATGCGGACAGAGAACTGTCTCG 660
Db 601 CGGCGAGGCGCGGACCTTGAAGCTGTGCGCTGTGATGCGGACAGAGAACTGTCTCG 660
Qy 661 CCTACTACGAGGCTGCTGTGAGCTGTGCGACCCGAGGAGCATCTGCGCGTCTGAGAG 720
Db 661 CCTACTACGAGGCTGCTGTGAGCTGTGCGACCCGAGGAGCATCTGCGCGTCTGAGAG 720
Qy 721 TCTGTGCGCGGGAAGGTGCTGCAACCTCCGAAAGGAGGAGCTGTGCGCGCGAGTGTGTGC 780
Db 721 TCTGTGCGCGGGAAGGTGCTGCAACCTCCGAAAGGAGGAGCTGTGCGCGCGAGTGTGTGC 780
Qy 781 GAAACCTTAACGAAAGGATCGGCGGAGCGTCAAGGATCTACATGAGCTCTGCGCCCTGG 840
Db 781 GAAACCTTAACGAAAGGATCGGCGGAGCGTCAAGGATCTACATGAGCTCTGCGCCCTGG 840
Qy 841 GCGATGGACTGACCTTGGCTTCAAGATCTAGGCTGAGCCCTAGTGAAGTGGCTCGAGG 900
Db 841 GCGATGGACTGACCTTGGCTTCAAGATCTAGGCTGAGCCCTAGTGAAGTGGCTCGAGG 900
Qy 901 GAGGTTGGCTTGGGAAACCCGAGAAATGACCTTGAATTTAAATTGAAAAATAAGTGGG 960
Db 901 GAGGTTGGCTTGGGAAACCCGAGAAATGACCTTGAATTTAAATTGAAAAATAAGTGGG 960
Qy 961 GCTGGGACACAAAAAATTTAAAAA 989
Db 961 GCTGGGACACAAAAAATTTAAAAA 989

Search completed: April 10, 2004, 16:26:03
Job time : 415 secs

QY	Db	QY	Db
594	CTGGCGGCGGCGAGGCGCGGCACTTTCGACGTGGCGCTGGTGGATGGCGACAGAGAGAAC	594	CTGGCGGCGGCGAGGCGCGGCACTTTCGACGTGGCGCTGGTGGATGGCGACAGAGAGAAC
568	CTGGAGGAGAGCGCTGGCGCGGCGAGTTTCGACTGGCGCTTCATTCGACGGCGACAGAGGCCAAC	568	CTGGAGGAGAGCGCTGGCGCGGCGAGTTTCGACTGGCGCTTCATTCGACGGCGACAGAGGCCAAC
654	TGCTCGGCTACTACAGACGCGTGGCTGGCAGCTGCTGGGACCCGAGAGGCATCTGCAGCTC	654	TGCTCGGCTACTACAGACGCGTGGCTGGCAGCTGCTGGGACCCGAGAGGCATCTGCAGCTC
628	TACCCGGAATAACTGGAGAGCGCGCGCTGGCGCTGGTGCGCCACCGGTGGGCGTGGTCTTTTC	628	TACCCGGAATAACTGGAGAGCGCGCGCTGGCGCTGGTGCGCCACCGGTGGGCGTGGTCTTTTC
714	CTCAGAGTCTTGTCGGCGCGGAGAGGTCGTGCAACTCTCGGAAGAGGAGACGTGGCGCGCAG	714	CTCAGAGTCTTGTCGGCGCGGAGAGGTCGTGCAACTCTCGGAAGAGGAGACGTGGCGCGCAG
688	GACAACTGTGTGGAGCGGCGCGGAGTCTCGAAGCGGACCGGAGAGTGGCGGATACCCGC	688	GACAACTGTGTGGAGCGGCGCGGAGTCTCGAAGCGGACCGGAGAGTGGCGGATACCCGC
774	TGTGTGGAAACTTAACGACGCAATCCGCGCGGACGTGCAGGGTCTATCATATGACTTCTTG	774	TGTGTGGAAACTTAACGACGCAATCCGCGCGGACGTGCAGGGTCTATCATATGACTTCTTG
748	GCGATCCAGCAGCTCAACCTGGCGGCTGGAAGAACGACGCGCGGTGGACTACTTCGCTGCTG	748	GCGATCCAGCAGCTCAACCTGGCGGCTGGAAGAACGACGCGCGGTGGACTACTTCGCTGCTG
834	CCCGTGGCGGATGAGATCTCACTTTGGCGTTCAAGATCT	834	CCCGTGGCGGATGAGATCTCACTTTGGCGTTCAAGATCT
808	CCGATCGGCGACGCGCTGAGCTTGTGTGCGAAGCGCT	808	CCGATCGGCGACGCGCTGAGCTTGTGTGCGAAGCGCT

RESULT 2

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US-09-452-239-45
: Sequence 45, Application US/09452239
: Patent No. 6465229
: GENERAL INFORMATION
: APPLICANT: Rafalaki, Antoni J.
: APPLICANT: Pader, Gary M.
: APPLICANT: Canoon, Rebecca E.
: TITLE OF INVENTION: Plant Cateoyl-CoA O-Methyltransferase
: FILE REFERENCE: B18184 US NA
: CURRENT APPLICATION NUMBER: US/09/452,239
: EARLIER FILING DATE: 1999-12-01
: EARLIER APPLICATION NUMBER: 60/110,594
: EARLIER FILING DATE: 1998-December-02
: NUMBER OF SEQ. ID NOS.: 50
: SOFTWARE: Microsoft Office 97
: SEQ. ID NO. 45
: LENGTH: 953
: TYPE: DNA
: ORGANISM: Triticum aestivum
US-09-452-239-45

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Query Match	16.4%;	Score 161.8;	DB 4;	Length 953;
Best Local Similarity	55.1%;	Pred. No. 1.5e-22;		
Matches 338;	Conservative	0;	Mismatches 272;	Indels 3;
				Gaps 1;

QY 27 CGGAGAGACCCGGGCGCTGCAGAACTCGAGAGCTGTCGACCTCTGGAGACACCCGAGGGGAGAT 333
 Db 186 CGCGAGACACAGATGTCATGCGCGACCTGGCCCTTCATCCAGACAAAGCACTCCATGGGGTTAC 245
 QY 333 TCTATGATGACTTGCAGACAGGCCCACTCTTGGCCAACTGGACCGGACTATCCAGGCC 392
 Db 246 ATGCAGTCTGCTCTCGAGCGAGGCGGACGCTGCTGGGGATCTGATCAAAATGGCGGGGCC 304
 QY 393 AAGAAAGCGCTGACACTCTGGGCACTTCAAGGGTACTCCGCCCTGGGCTGGGCG 452
 Db 306 AAGAAAGACGATCGAGAGTGGGCGTGTTCACGGGTACTCTGCTGACACCGCGCTGGCG 365
 QY 453 CTGGCCCCGAGCGGCGCGCTGCTGATGACTTGGAGTGAACGCGACGCCCGGAGCTGGGA 512
 Db 366 CTCCCGGAGGACCGGCMAAGTGTGTGCGCATGACACCGACCGGAGATGTCAAGAGTGGGT 425
 QY 513 CGGCCCCCTGTGAGAGCGACGCGCGAGGCGGAGACACAAATGACCTTCGGCTGAAGCCGCC 572
 Db 426 CGCCCTTTCATCGAGAGGCGCGGCATAGCCGCAAAATGAACTTCCGAGGGGACCGGC 485
 QY 573 TTGAGACCCCTGAGACGAGCTGTGAGCGGCGGGGCGA---GAGCGGACACTTGCAGCTGGCC 622
 Db 486 CTGGCGCGCCCTGAGCGAGCTCTCTGTGAGAGACGACGCGGCGGAGCTACGACTTTCGGG 545
 QY 630 GTGTGTGATGCGGACAAAGAGAACTGCTCGGCTTACTAGAGCGGCTGCTGAGCTGCTG 688

Db	546	TTCTGTGGAAGCCGGAACAAACCAACTTACCTTGGCTACCAACGACGAGCTGCTGAAGCTGGTC	803
Qy	690	CCACCCGGAGGGATCTCTGCGCGTCTCTCAGAGTCTCTGTGCGCGGGAAGTGTCTGCAACT	749
Db	606	CAGGTGTGGGGCACTATATCTATCTACGACAAACAGCTCTGTGGGCGGCAAGGTGGCGCTGGCG	665
Qy	750	CCGAAAGGGAGCTGTGGCGGCGGAGTGTGTGCGAAACCTTAAACGACGATCCGGCGGAC	809
Db	666	GCGGGACACCCCATGTCCGACTTCGACACCCCGCTTCTCCGCGGCTCTACGGGACCTTCAC	725
Qy	810	GTTCAGGCTTAATCAGAGCTCTCTGCGCCTTGGGCGCATGGACCTTGGCCTTCAAGATC	869
Db	726	GCCAAAGCTGCGCGCGAGCCCGCGCATCGAAGTCTGCCACGCTTCGCATCGCCGACGAGTTC	785
Qy	870	TAGGGCTTGCCCC	882
Db	786	ACCATCTGCGGCC	798

RESULT 3
ITE-09-453-338-43

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: Sequence 43, Application US/09452239
: Patent No. 6465229
: GENERAL INFORMATION:
: APPLICANT: Rafaleki, Antoni J.
: APPLICANT: Feder, Gary M.
: APPLICANT: Cahoon, Rebecca E.
: TITLE OF INVENTION: Plant Calceyl- CoA O-Methyltransferase
: FILE REFERENCE: B81284 US NA
: CURRENT APPLICATION NUMBER: US/09/452,239
: CURRENT FILING DATE: 1999-12-01
: EARLIER APPLICATION NUMBER: 60/110,594
: EARLIER FILING DATE: 1998-December-02
: NUMBER OF SEQ ID NOS: 50
: SOFTWARE: Microsoft Office 97
: SEQ ID NO 43
: LENGTH: 1049

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? ORGANISM: Trifolium aestivum
? FEATURE:
? NAME/KEY: unsure
? LOCATION: (352)
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? FEATURE:
? NAME/KEY: unsure
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? NAME/KEY: unsure
? LOCATION: (1003)
? FEATURE:
? NAME/KEY: unsure
? LOCATION: (1038)
US-09-452-339-43

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Query Match	16.1%;	Score 159.2;	DB 4;	Length 1049;
Best Local Similarity	54.8%;	Pred. NO. 4.7e-22;		
Matches 336;	Conservative 0;	Mismatches 274;	Indels 3;	Gaps 1

QY	273	CGGAGACACCCGGCGGCTTCGAAGCCTTAGCGCTGACCCCTGAGCAGCGCGAGCGAGAT	332
Db	186	CCGACGACAGATGATATCGCGGACCTGGCGCTCATCGACGACAGCACCCATGGGATTC	245
QY	333	TCTATGATGACTCTGGAGACAGGCCCACTCTTTCGGCCAACTGGCGCGGCTATATCCAGGCG	392
Db	246	ATGCAGTGTCTCTCGGACAGGCGAGCTGCTGGAGATGCTATCAAGATGGCGGCGCGC	305

QY 393 AAGAGGCGCTGAGACCTTGGGACCTTTCACGGGCTACTCCGCCCTTGCCCTTGCCCTTGAGCG 452
Db 306 AAGAGAGAGATGAGAGTGGGGCTGTTCACGGGCTACTCCGCCCTTGAGCACCGGCTGGCG 365
QY 453 CTGCCCGCGAGCGGCGCGGTGTGACCTGCGAGGTGACCGGACGCCCCCGGAGCTGGGA 512
Db 366 CTCCCGAGAGCGGCAAGGTGTGGGATGACACCGACCGAGGTGCTACGAGGTGGAT 425
QY 513 CGGCCCTTGAGAGGAGCGAGCGGAGGACCAAGATCGACCTCGGCTGAAAGCCGCC 572
Db 426 CGCCCTTTCATTGAGAGAGCGCGGATGCGGACCAAGGTGGATCTTCGCGAGGAGCACCGGC 485
QY 573 TTGAGACCTTGAACGAGCTGTGCGCGCGGCGCA--GGCGCGACCTTTCAGCTGGCC 629
Db 486 CTGGCGCGCTGAGACGAGCTCTCTGCGAGGACGACCGCGCGGAGCTACGACTTCGCG 545
QY 630 GTGGTGGATGCGGCAAGAGGAACTGCTCGGCTTACGAGCGCTGCGAGCTGGCTG 689
Db 546 TTCTGTGAGCGGACCAAGCCCACTACGTGCGCTACACAGAGAGCTGTGAAGCTGGTC 605
QY 690 CGACCCGAGAGCATCTCGCGCTCTGAGATCTGTGCGCGGAGAGGTGTGCAACT 749
Db 606 CGCGTCGGCGGACATATCATCTACGACAAACGCTCTGGGCGGCGACGATGGCGCTGGCG 665
QY 750 CCGAAAGGGAGCGTGGCGGCGGAGTGTGTGGAACCTTAAACGAGCATCCGGCGGAGC 809
Db 666 GCGGAGCAACCCCAATGTCGAGCTCGACACCGGCTTCGCGCGGCTGAGGAACTTCAC 725
QY 810 GTCAAGGCTTCACTACATCACTCTCTGCGGCGGATGAGACTGAGCTTTCAGAGTC 869
Db 726 GCCAAGCTCGCGCGGACCGCGGATGAGGTCTGCCAGCTCGGACGCGAGCGGCTC 785
QY 870 TAGGCGTGGCCCC 882
Db 786 ACCATCTGCGCGC 798

RESULT 4
US-09-452-239-13
Sequence 13, Application US/09452239

GENERAL INFORMATION:
PATENT NO. 6465229
APPLICANT: Rafalski, Antoni J.
APPLICANT: Fader, Gary M.
APPLICANT: Cahoon, Rebecca E.
TITLE OF INVENTION: Plant Caffeyol-CoA O-Methyltransferase
FILE REFERENCE: B01284 US NA
CURRENT APPLICATION NUMBER: US/09/452,239
CURRENT FILING DATE: 1999-12-01
EARLIER APPLICATION NUMBER: 60/110,594
EARLIER FILING DATE: 1998-December-02
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Microsoft Office 97
SEQ ID NO 13
LENGTH: 997
TYPE: DNA
ORGANISM: Oryza sativa
FEATURE:
NAME/KEY: unsure
LOCATION: (483)
US-09-452-239-13

Query Match 16.0%; Score 158.6; DB 4; Length 997;
Best Local Similarity 54.2%; Pred. No. 6,1e-22;
Matches 373; Conservative 0; Mismatches 300; Indels 15; Gaps 2;

QY 273 CGGAGAGACCGCGGCTGCGGAGGCTGAGTGTGACCTTGAGAGCGCGCGAGGGGAT 332
Db 187 CGGAGCGCGAGTGCATCGGATTCGCGCTTATCAGAGCAAGACCAAGGGGATTC 246
QY 333 TCTATGATGACCTCGAGAGCGCCAGCTTGGCGCAACCTGGCGGCTCATTCAGGCC 392

Db 247 ATGCACTGCTCCGCGGATGAGGCGGAGCTGTGGGAGATCTGCTGTAAGATGCGCGGACG 306
QY 393 AAGAGGCGCTGAGACCTTGGGACCTTTCACGGGCTACTCCGCCCTTGCCCTTGAGCG 452
Db 307 AAGAGAGAGATGAGAGTGGGGCTGTTCACGGGCTACTCCGCCCTTGAGCACCGGCTGGCG 366
QY 453 CTGCCCGCGAGCGGCGCGGTGTGACCTGCGAGGTGACCGGACGCCCCCGGAGCTGGGA 512
Db 367 CTCCCGAGAGCGGCAAGGTGTGGGATGACACCGGACGAGGTGCTACGAGATCCGG 426
QY 513 CGGCCCTTGAGAGGAGCGGCGGAGGACCAAGATCGACCTCGGCTGAAAGCCGCC 572
Db 427 CGGCCCTTTCATTGAGAGAGCGCGGATGCGGACCAAGGTGGATCTTCGCGAGGAGCACCGGC 486
QY 573 TTGAGACCTTGAACGAGCTGTCT-----GGCGCGCGGAGGCGGACCTTC 620
Db 487 CTGAGAGAGCTGAGACGAGCTGCTCGCGAGAGGCGGCGGCGGCGGAGCGGCTTC 546
QY 621 GACGTGGCGGTGTGATGCGGACCAAGAGAACTGCTCGGCTTACAGAGCTGGCTG 680
Db 547 GACTTCGGGTTCTGTGAGACGCGGACCAAGCCCACTACGTCAAGTACACAGAGAGCTGCTG 606
QY 681 CAGCTGTGCGACCGCGAGGACATCTGCGCGGCTCTCAAGTCTGTGCGCGGAGAGTG 740
Db 607 CAGCTGTGCGGCTGTGCGGCGGACATCTGTGACCAACAGCTGTGCGGCGGACGCTG 666
QY 741 CTGCAACTCGGAAAGGAGACGTGGCGGCGGAGTGTGTGGAACCTTAAACGAGCATC 800
Db 667 GCGCTGCGCGCGGACACCGCGCTGTGAGACCTGAGCCGAGAGTTCCTCGGCGCATCG 726
QY 801 CGCGGAGAGCTGAGGATCTACATGACGCTCTGCGGCGGATGAGACTGACCTTGGCC 860
Db 727 GACTCACTCCAGGCTCGCGCGGACCGCGGATGAGCTGTGCAACTGCGCATTCGCC 786
QY 861 TTCAAAGAT--CTAAGGCTGGCGGCTTGTGAGTGGGCTGAGAGGAGGCTTGGGAGC 917
Db 787 GACGGAGTACCATCTGCGCGGCTCGTGTGAGGTGAGACCGAGACCTTACCGGCGGA 846
QY 918 CCCAGAGATGAGCCTTGAGCTTTAAT 945
Db 847 TCCATTCATCGCTCTCGCGTGAATTAAT 874

RESULT 5
US-09-452-239-41
Sequence 41, Application US/09452239

GENERAL INFORMATION:
PATENT NO. 6465229
APPLICANT: Rafalski, Antoni J.
APPLICANT: Fader, Gary M.
APPLICANT: Cahoon, Rebecca E.
TITLE OF INVENTION: Plant Caffeyol-CoA O-Methyltransferase
FILE REFERENCE: B01284 US NA
CURRENT APPLICATION NUMBER: US/09/452,239
CURRENT FILING DATE: 1999-12-01
EARLIER APPLICATION NUMBER: 60/110,594
EARLIER FILING DATE: 1998-December-02
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Microsoft Office 97
SEQ ID NO 41
LENGTH: 1078
TYPE: DNA
ORGANISM: Triticum aestivum
US-09-452-239-41

Query Match 15.9%; Score 157.2; DB 4; Length 1078;
Best Local Similarity 57.1%; Pred. No. 1,1e-21;
Matches 307; Conservative 0; Mismatches 228; Indels 3; Gaps 1;

QY 214 AGTGCCTGCTTCCCCCGAGAGACGCGGCTGTGAGATCTTCTGAGCGGCTTCATGC 273
Db 200 AAGAGCTGCTTCAGAGAGCAAGCCCTTTCAGATCATCTGAGAGAGAGCGGTGACCGCG 259

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QY 274 GGGAGACCCGCGCTGCGAAGCCTGAGCTGTGACCTTGAGACCCGCGAGGGGATT 333
DB 260 GCGAGCAGCTGATCATGAAAGAGCTCCGAGATGACCGCAACCCATGGAACCTGA 319
QY 334 CTATGATGACCTGCGAGACGAGCCAGCTTTGGCCAACTGCGCGGCTCATGCAAGCCA 393
DB 320 TGACGAGCTGCGGCGAGAGAGGCGCACTTCTCAACATGCTGCTCAAGCTCATGCGGCCA 379
QY 394 AGAAGCGCTGGAACCTGCGGCACTTCAAGGCTTCTGCGCTGCGCTGCGCTGCGCC 453
DB 380 AGAAGACCATGAGATGCGGCTCAACACCGCTTCTCCCTGCGCACCGCGCTGCGCA 439
QY 454 TGCCCGGCGAGCGGCGGCTGATGACCTGAGAGGAGCGCGCGCCCGGAGCTGAGAC 513
DB 440 TCCCGAGAGCGGCACTTGTGCTGATGACATCAACCGCGAAGACTGAGAGCTGAGGC 499
QY 514 GGGCCCTGTGAGAGCAGCGCGAGCGGAGCAAGATGACCTTCCGCTGGAAGCCCGCT 573
DB 500 TGCCGTGATGAGAAAGCGCGGCTGCGCAAGATGACCTTCCGAGAGGCGCGCGCC 559
QY 574 TGAAGACCTGAGAGAGCTGTGCGCGC---GGCGAGCGCGGACCTTGAAGTGGCCG 630
DB 560 TGCGGTGCTGAGAGCGCTGCTGAGAGCAGAGGCAACACCGGACCTTGTGCTGT 619
QY 631 TGTGATGCGGAGCAAGAGAACTGCTCCGCTACTGAGAGCGCTGCTGAGAGCTGCTG 690
DB 620 TGTGAGAGCGGAGCAAGAGAACTGCTCACTCACTGAGAGCGGCTGATGAGCTGCTGA 679
QY 691 GACCCGAGGAGATCTTGCCTGCTGAGAGCTTGTGCGCGGAGAGTGTGCAACC 748
DB 680 AGTCGCGGCGCTCTGCTGCTGAGCAACAGCTGGAAGCGCTGCTGCTGCTGCC 737

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RESULT 6

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US-09-452-239-35
; Sequence 35, Application US/09452239
; Patent No. 6465229
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni J.
; APPLICANT: Fader, Gary M.
; APPLICANT: Cahoon, Rebecca E.
; TITLE OF INVENTION: Plant Caffey1-CoA O-Methyltransferase
; FILE REFERENCE: B01284 US NA
; CURRENT APPLICATION NUMBER: US/09/452,239
; EARLIER FILING DATE: 1999-12-01
; EARLIER APPLICATION NUMBER: 60/110,594
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 35
; LENGTH: 1018
; TYPE: DNA
; ORGANISM: Triticum aestivum
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (817)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (826)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (874)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (891)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (924)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (934)
; FEATURE:
; NAME/KEY: unsure

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; LOCATION: (961)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (970)..(971)
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1012)
US-09-452-239-35

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Query Match 15.7%; Score 155.6; DB 4; Length 1018;
Best Local Similarity 56.6%; Pred. No. 2.3e-21;
Matches 309; Conservative 0; Mismatches 234; Indels 3; Gaps 1;

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QY 214 AGTCCTGCTTCCCCGAGAGACGCGGCTGTGAGAGTATCTTGTGAGCGCTGCATGC 273
DB 177 AGAGCTTCTCAAGAGCAAGCACTGTACAGTACATCTTGAGACAGAGCTGTACCGGC 236
QY 274 GGGAGCACCGGCGCTGCGAAGCTTGAAGCTGTGACCTTGAGACAGCGCGAGGGGATT 333
DB 237 GGGAGCCGAGAGCATGAAAGAGCTGCGGAGATCACCGCAAGCACCTGAAACCTGA 296
QY 334 CTATGATGACCTGAGAGAGCGCCAGAGCTTGGGCAACCTGAGCGGCTATCCAGGCA 393
DB 297 TGACCACTTCCGCGAGAGGAGGCGCAAGTCTCAACATGCTCATAGCTCATCGCGCCA 356
QY 394 AGAAGCGCTGAGACCTGAGGCACTTCAAGGCTACTCCGCTTGGCCCTGCGCTGCGC 453
DB 357 AGAAGACCATGAGAGTGGGCTTACACCGGCTACTCCCTGCTGCGACCGGCTGCGCA 416
QY 454 TGCCCGGCGAGCGGCGGCTGTGATGACCTGAGAGTGAAGCGGCAACCCCGAGAGTGGAG 513
DB 417 TCCCGAGAGCGGCACTTGTGCTGAGCATGACATGACCGGAGACATGAGAGCTGGGCG 476
QY 514 GGGCCCTGTGAGAGCGGCGAGCGGAGCAAGATGACCTTCCGCTGGAAGCCCGCT 573
DB 477 TGCCGTGATGAGAAAGCGCGGCTGCGCAAGATGACTTCCGAGAGGCGCGCGGC 536
QY 574 TGAAGACCTGAGAGAGCTGTGCGCGC---GGCGAGCGCGGACCTTGAAGTGGCCG 630
DB 537 TGCCGTGCTGAGAGCGGCTGCTGAGAGCAGAGGCAACCAAGGAGCTTGTGCTGT 596
QY 631 TGTGATGCGGAGCAAGAGAACTGCTCCGCTACTGAGAGCGGCTGAGAGCTGCTG 690
DB 597 TGTGAGAGCGGAGCAAGAGAACTGCTCACTCACTGAGAGCGGCTGATGAGCTGCTGA 656
QY 691 GACCCGAGGAGATCTTGCCTGCTGAGAGCTTGTGCGCGGAGAGTGTGCAACTGC 750
DB 657 AGTCGCGGCGCTCTGCTGCTGAGCAACAGCTTGTGAAAGCGCTGCTGCTGCTCGCG 716
QY 751 CGAAG 756
DB 717 CGAGG 722

```

RESULT 7

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US-09-452-239-1
; Sequence 1, Application US/09452239
; Patent No. 6465229
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni J.
; APPLICANT: Fader, Gary M.
; APPLICANT: Cahoon, Rebecca E.
; TITLE OF INVENTION: Plant Caffey1-CoA O-Methyltransferase
; FILE REFERENCE: B01284 US NA
; CURRENT APPLICATION NUMBER: US/09/452,239
; EARLIER FILING DATE: 1999-12-01
; EARLIER APPLICATION NUMBER: 60/110,594
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 1
; LENGTH: 891
; TYPE: DNA

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ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (806)
FEATURE:
NAME/KEY: unsure
LOCATION: (810)
US-09-452-239-1

Query Match 15.6%; Score 154; DB 4; Length 891;
Best Local Similarity 56.7%; Pred. No. 4, 5e-21;
Matches 305; Conservative 0; Mismatches 230; Indels 3; Gaps 1;

QY 214 AGTCCCTGCTTCCCGGAGAGACAGCCGCTGTGGGCAATCTTCTGAGCCGCTCATC 273
DB 181 AGAGCTGCTCAAG 240
QY 274 GGGAGCACCAGGAG 333
DB 241 GGGAGCAG 300
QY 334 CTATGATGACCTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 393
DB 301 TGAGAGCTTCCGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
QY 394 AGAAGCGCTGAGACCTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 453
DB 361 AGAAGCAG 420
QY 454 TGCCCGGAG 513
DB 421 TCCGAG 480
QY 514 GAGCCCTGAG 573
DB 481 TTCCCTGATCAAG 540
QY 574 TGAGAGCCTGAG 630
DB 541 TCCCGCTGAG 600
QY 631 TGGTGAATGGGAG 690
DB 601 TGGTGAATGGGAG 660
QY 691 GAGCCGAG 748
DB 661 GAGCCGAG 718

RESULT 8
US-09-410-551B-1

; Sequence 1, Application US/09410551B
; Patent No. 6503737
; GENERAL INFORMATION:
; APPLICANT: KOSAN BIOSCIENCES, Inc.
; APPLICANT: REEVES, CHRISTOPHER
; APPLICANT: CHU, DANIEL
; APPLICANT: KHOSLA, CHAITAN
; APPLICANT: SANITI, DANIEL
; APPLICANT: WU, KAI
; TITLE OF INVENTION: POLYKETIDE SYNTHASE ENZYMES AND RECOMBINANT DNA
; FILE REFERENCE: 30062-20026.00
; CURRENT FILING DATE: 1999-10-01
; PRIOR FILING DATE: 1999-06-17
; PRIOR APPLICATION NUMBER: US 60/139,650
; PRIOR FILING DATE: 1999-03-11
; PRIOR APPLICATION NUMBER: US 60/123,810
; PRIOR FILING DATE: 1998-10-02
; PRIOR APPLICATION NUMBER: US 60/102,748
; NUMBER OF SEQ ID NOS: 72

SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 77536
; TYPE: DNA
; ORGANISM: Streptomyces hygroscopicus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (52275)...(71465)
US-09-410-551B-1

Query Match 15.5%; Score 153; DB 4; Length 77536;
Best Local Similarity 55.4%; Pred. No. 1, 2e-20;
Matches 341; Conservative 0; Mismatches 265; Indels 9; Gaps 2;

QY 252 TATCTTGAAGCCGCTCATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 311
DB 8195 TACGTAG 8254
QY 312 CTGAG 368
DB 8255 GCGAG 8314
QY 369 AACCTGAG 428
DB 8315 TTCTGAG 8374
QY 429 TCCGCTGAG 488
DB 8375 AGCAG 8434
QY 489 GAG 548
DB 8435 ATGCGAG 8494
QY 549 ATGAG 602
DB 8495 ATGAG 8554
QY 603 GAG 662
DB 8555 GCGAG 8614
QY 663 TACTAG 722
DB 8615 TACTAG 8674
QY 723 CTGAG 782
DB 8675 CTGAG 8734
QY 783 AACCTAAG 842
DB 8735 GAGCTAAG 8794
QY 843 GATGAG 857
DB 8795 GAGGAG 8809

RESULT 9

US-09-452-239-37
; Sequence 37, Application US/09452239
; Patent No. 6465229
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni J.
; APPLICANT: Fader, Gary M.
; APPLICANT: Cahoon, Rebecca E.
; TITLE OF INVENTION: Plant Calliceyl-CoA O-Methyltransferase
; FILE REFERENCE: BB1284 US NA
; CURRENT FILING DATE: 1999-12-01
; PRIOR FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: US/09/452,239
; PRIOR FILING DATE: 1998-December-02

NUMBER OF SEQ ID NOS: 50
 SOFTWARE: Microsoft Office 97
 SEQ ID NO: 37
 LENGTH: 1118
 TYPE: DNA
 ORGANISM: Triticum aestivum
 US-09-452-239-37

Query Match 15.0%; Score 148; DB 4; Length 1118;
 Best Local Similarity 53.7%; Pred. No. 6.4e-20;
 Matches 366; Conservative 0; Mismatches 295; Indels 21; Gaps 2;

214 AGTGCCTGCTTCCCCCGAGAGACAGCCCGCTGTGGCACTATCTTGTAGCCGCTCCATGC 273
 184 AGAGCTGCTCAAGAGCAGACCTTACACATCTTGTGACACAGAGCTGTATCCGC 243
 274 GGGAGACCCCGCGCTGGGAAAGCTGAGGCTGACCTGAGACAGCCGAGGGGATT 333
 244 GGGAGCCGAGAGCATGAGAGCTCCGCGAGATCACCGCAAGCACCACTGAACTGA 303
 334 CTATGATGACTGCGAGAGAGCCGACCTTGTGGCAACCTGGCGGCTCATCCAGGCCA 393
 304 TGACACCTCCGCGAGCAGAGGAGGAGGCTTGAACATGCTCATGACGCTATCGGCGCA 363
 394 AGAAGCGCTGAGACCTTGGGACCTTCAAGGCTACTCCGCTGAGCCCTGAGCCCTGAGCGC 453
 364 AGAAGACCATGAGATGGCGCTTACACCGGCTACTCCCTCTGCGCAAGCGGCTGCGCC 423
 454 TGGCGCGGAGCGGCGCTGTGATCTGCGAGGTGAGCGAGCGAGCCCGAGGCTGGAG 513
 424 TCCCGAGAGAGCGGACGATCTTGGGCAATGACATCAACCGGAGAACTACGAGCTGGGCC 483
 514 GGGCCCTGTGAGAGCGAGCGAGCGAGGAGCAAGATGACCTCCGCTGAAAGCCGCT 573
 484 TGCCCTGATGAGAAAGCCGCGCTGCGCCACAGATGACTTCCGAGAGGCTCCCGCG 543
 574 TGGAGACCTTGAGACGAGTGTGCGGCGGCGAG--GCCGACCTTTCAGCTGGCGC 630
 544 TCCCGCTCTGACGACCTTCACTCGGAGAGAAACCAAGGCTGCTTCACTTCTCTCT 603
 631 TGGTGAATGCGGAGCAAGAGAACTGCTCGGCTTACTAGAGCGGCTGAGCTGTGCG 690
 604 TGTGAGAGCGGAGCAAGAACTTACTTCACTTACACGAGCGGCTGTGAGGCTGTGA 663
 691 GACCCGAGAGCATCTTCCGCTTCAAGATCTGTGCGGCGGAGAGGTGTGCAACTTC 750
 664 AGCTGGGCGGCTCATTCGGCTACGACAAACGCTGTGAAAGCGCTCGTCTCCCG 723
 751 CGAAAGGAGACGTGGCGGC-----CGAGTGTGTGGAACCTTAAAG 792
 724 AGCAGCGCGCCATGCGCAAGTACATCGCTTCTACCGGACTGTGTGCTCTCTCAACA 783
 793 AAGCATCCGCGGAGAGCTCAGAGGTCTACATCAGCTCTCGCCCTGGCGCATGAGATCA 852
 764 AGGCGCTCGCCCGCAGACGCGCGTGAAGATGTGCACTCCCGTCCGCGACGAGCGTCA 843
 853 CCTTGGCTTCAAGATCTTAGG 874
 844 CCTCTGCGCGCGGCTCAAGTG 865

RESULT 10
 US-09-452-239-3
 Sequence 3, Application US/09452239
 Patent No. 6465229
 GENERAL INFORMATION:
 APPLICANT: Rafalecki, Antoni J.
 APPLICANT: Fader, Gary M.
 APPLICANT: Cahoon, Rebecca E.
 TITLE OF INVENTION: Plant Caffeyol-coA O-Methyltransferase
 FILE REFERENCE: B1284 US NA
 CURRENT APPLICATION NUMBER: US/09/452,239
 CURRENT FILING DATE: 1999-12-01

EARLIER APPLICATION NUMBER: 60/110,594
 EARLIER FILING DATE: 1998-December-02
 NUMBER OF SEQ ID NOS: 50
 SOFTWARE: Microsoft Office 97
 SEQ ID NO: 3
 LENGTH: 1146
 TYPE: DNA
 ORGANISM: Zea mays
 US-09-452-239-3

Query Match 15.0%; Score 148; DB 4; Length 1146;
 Best Local Similarity 53.7%; Pred. No. 6.5e-20;
 Matches 366; Conservative 0; Mismatches 295; Indels 21; Gaps 2;

214 AGTGCCTGCTTCCCCCGAGAGACAGCCCGCTGTGGCACTATCTTGTAGCCGCTCCATGC 273
 189 AGAGCTGCTCAAGAGCAGACCTTACACATCTTGTGACACAGAGCTGTATCCGC 248
 274 GGGAGACCCCGCGCTGGGAAAGCTGAGGCTGACCTGAGACAGCCGAGGGGATT 333
 249 GGGAGCCGAGAGCATGAGAGCTCCGCGAGATCACCGCAAGCACCATGAACTGA 308
 334 CTATGATGACTGCGAGAGCCGACCTTGTGGCAACCTGGCGGCTCATCCAGGCCA 393
 309 TGACACCTCCGCGAGCAGAGGAGGCTTGAACATGCTCATGACGCTATCGGCGCA 368
 394 AGAAGCGCTGAGACCTTGGGACCTTCAAGGCTACTCCGCTGAGCCCTGAGCCCTGAGCGC 453
 369 AGAAGACCATGAGATGGCGCTTACACCGGCTACTCCCTCTGCGCAAGCGGCTGCGCC 428
 454 TGGCGCGGAGCGGCGCTGTGATCTGCGAGGTGAGCGAGCGAGCCCGAGGCTGGAG 513
 429 TCCCGAGAGAGCGGACGATCTTGGGCAATGACATCAACCGGAGAACTACGAGCTGGGCC 488
 514 GGGCCCTGTGAGAGCGAGCGGAGCGAGGAGCAAGATGACCTCCGCTGAAAGCCGCT 573
 489 TGCCCTGATGAGAAAGCCGCGCTGCGCCACAGATGACTTCCGAGAGGCTCCCGCG 548
 574 TGGAGACCTTGAGACGAGTGTGCGGCGGCGAG--GCCGACCTTTCAGCTGGCGC 630
 549 TCCCGCTCTGACGACCTTCACTCGGAGAGAAACCAAGGCTGCTTCACTTCTCTCT 608
 631 TGGTGAATGCGGAGCAAGAGAACTGCTCGGCTTACTAGAGCGGCTGAGCTGTGCG 690
 609 TGTGAGAGCGGAGCAAGAACTTACTTCACTTACACGAGCGGCTGTGAGGCTGTGA 668
 691 GACCCGAGAGCATCTTCCGCTTCAAGATCTGTGCGGCGGAGAGGTGTGCAACTTC 750
 669 AGCTGGGCGGCTCATTCGGCTACGACAAACGCTGTGAAAGCGCTCGTCTCCCG 728
 751 CGAAAGGAGACGTGGCGGC-----CGAGTGTGTGGAACCTTAAAG 792
 729 AGCAGCGCGCCATGCGCAAGTACATCGCTTCTACCGGACTGTGTGCTCTCTCAACA 788
 793 AAGCATCCGCGGAGAGCTCAGAGGTCTACATCAGCTCTCGCCCTGGCGCATGAGATCA 852
 789 AGGCGCTCGCCCGCAGACGCGGCTGAAGATGTGCAAGTCCCGTCCGCGACGAGCGTCA 848
 853 CCTTGGCTTCAAGATCTTAGG 874
 849 CCTCTGCGCGCGGCTCAAGTG 870

RESULT 11
 US-09-452-239-5
 Sequence 5, Application US/09452239
 Patent No. 6465229
 GENERAL INFORMATION:
 APPLICANT: Rafalecki, Antoni J.
 APPLICANT: Fader, Gary M.
 APPLICANT: Cahoon, Rebecca E.
 TITLE OF INVENTION: Plant Caffeyol-coA O-Methyltransferase
 FILE REFERENCE: B1284 US NA


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CURRENT APPLICATION NUMBER: US/09/452,239
CURRENT FILING DATE: 1999-12-01
EARLIER APPLICATION NUMBER: 60/110,594
EARLIER FILING DATE: 1998-December-02
NUMBER OF SEQ ID NOS: 50
SOFTWARE: Microsoft Office 97
SEQ ID NO: 7
LENGTH: 923
TYPE: DNA
ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (887)
FEATURE:
NAME/KEY: unsure
LOCATION: (895)
FEATURE:
NAME/KEY: unsure
LOCATION: (914)
US-09-452-239-7

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Query Match 12.7%; Score 126; DB 4; Length 923;
Best Local Similarity 56.6%; Pred. No. 9,7e-16;
Matches 275; Conservative 0; Mismatches 205; Indels 6; Gaps 2;

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QY 261 AGCCGCTTCATGCGGAGACCCGCGCTGCGAAGCTGAGGCTGCTGACCTTGAGCAG 320
DB 138 ACCGCTCTCCACCGGAGCCGAGCTGCTGCGGAGCTCGCGCTCGCCACCGCCAC 197
QY 321 CCGGAGGAGGATTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 380
DB 198 CCGGAGGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 257
QY 381 CTATTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 440
DB 258 ATTCTTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 317
QY 441 CTGCGCTGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 500
DB 318 ACCGCTCTCGGCTCTCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 377
QY 501 CCGGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 557
DB 378 TACGACGATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 437
QY 558 CGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 614
DB 438 CGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 497
QY 615 ACCTTCGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 674
DB 498 AAGTTGAGCTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 557
QY 675 TGGCTGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 734
DB 558 CTGCTGAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 617
QY 735 AAGGTG 740
DB 618 TCCGTG 623

```

```

RESULT 14
US-07-708-866A-1
Sequence 1, Application US/0708866A
Patent No. 5322937
GENERAL INFORMATION:
APPLICANT: Akira ARISAWA et al.
TITLE OF INVENTION: Genes Encoding A 3-Acylolation
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESSES:
ADDRESS: Wenderoth, Lind & Ponack

```

```

STREET: 805 Fifteenth Street, N.W., #700
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 500 Kb
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Displaywrite
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/708,866A
FILING DATE: 19910531
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek, Jr.
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
TELEFAX: 202-371-8856
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1810 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE:
ORGANISM: Streptomyces thermotolerans
STRAIN: ATCC 11416

```

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FEATURE:
NAME/KEY: -35 signal
LOCATION: 120..125
IDENTIFICATION METHOD: S
FEATURE:
NAME/KEY: -10 signal
LOCATION: 143..148
IDENTIFICATION METHOD: S
FEATURE:
NAME/KEY: RBS
LOCATION: 194..198 AND 201..205
IDENTIFICATION METHOD: S
US-07-708-866A-1

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Query Match 12.4%; Score 122.8; DB 1; Length 1810;
Best Local Similarity 58.5%; Pred. No. 4.3e-15;
Matches 233; Conservative 0; Mismatches 162; Indels 3; Gaps 1;

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QY 243 CTGAGCAATATCTTCTGAGCGGCTCATGCGGAGGAGGAGGAGGAGGAGGAGGAG 302
DB 1412 CTGCTGAAATAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1471
QY 303 CTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 359
DB 1472 GAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1531
QY 360 CTCTGAGCAATCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 419
DB 1532 CTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1591
QY 420 ACGGCTATCTCGGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 479
DB 1592 ACCGCTATCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1651
QY 480 TCGAGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 539
DB 1652 TGGGACATACGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1711
QY 540 GAGCAGAGATGAGCTCGGCTGAAGCCGCTTGAGAGCCTTGAGAGAGAGGAGTGTGCG 599

```

Db 1712 GCCGACCCGATCGACCTTCGATCGGCGAGCCGCCGAGACCTTCGAGTGGTGA 1771
 QY 600 GCGGCGAGGCCGCGACCTTCGACGTGGCCGTGGTGA 637
 Db 1772 CACGAAGCGCAGCGGATCTTCGACCTGTGTCTGCA 1809

RESULT 15
 US-07-708-866A-2
 ; Sequence 2, Application US/07708866A
 ; Patent No. 5322937
 ; GENERAL INFORMATION:
 ; APPLICANT: Akira ARISAWA et al.
 ; TITLE OF INVENTION: Enzyme Encoding A 3-Acylation
 ; NUMBER OF SEQUENCES: 2
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Wenderoth, Lind & Ponack
 ; STREET: 805 Fifteenth Street, N.W., #700
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: U.S.A.
 ; ZIP: 20005
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette, 5.25 inch, 500 Kb
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: MS-DOS
 ; SOFTWARE: DisplayWrite
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/708,866A
 ; FILING DATE: 19910531
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Warren M. Cheek, Jr.
 ; REGISTRATION NUMBER: 33,367
 ; TELEPHONE: 202-371-8850
 ; TELEFAX: 202-371-8856
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1810 base pairs
 ; TYPE: NUCLEIC ACID
 ; STRANDEDNESS: single
 ; TOPOLOGY: unknown
 ; US-07-708-866A-2

Query Match 12.4%; Score 122.8; DB 1; Length 1810;
 Best Local Similarity 58.5%; Pred. No. 4.3e-15;
 Matches 233; Conservative 0; Mismatches 162; Indels 3; Gaps 1;

QY 243 CTGTGGGAGTATCTTCTGAGCCGCTCATGCGGAGGACCCGGCGCTGCGAAGCTTGAGG 302
 Db 1412 CTGTGGGAGTATCGCCAGGAGGCTCTCCGTGCGCGACGACCCGTGCTGCCGAGCTGCCG 1471
 QY 303 CTGCTGACCTTGAGCGAGCCGCGAGGAGATTCTAT---GATGACCTGCGAGAGGCCCGAG 359
 Db 1472 GAGTTGACGGCGGCCCTGCGCGGCGAGCGGCCCATGCAATCATGCCGAGAGAGGCCCGAG 1531
 QY 360 CTCTTGGCCACCTGCGCGCGCTCATCAGGCGCAGAGGCGCTGAGACTTGAGGACCTTC 419
 Db 1532 CTCTCGCGGCTGCTCATCCGCTCAAGGCGCGCCGAGGCTCTGAGATCGGACGTTTC 1591
 QY 420 ACGGCGTACTCGCGCTGCGCGCTGCGCTGCGCGCTGCGCGCGCGCGCGCGCGCGCGCGCG 479
 Db 1592 ACGGCGTACAGCAGCTGTGATGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1651
 QY 480 TGCAGGTGAGCG 539
 Db 1652 TGCAGCATCACCGAGCGGTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1711
 QY 540 GAGGACAAATGACCTTCGCGCTGAAGCCGCGCTTGAGAGCCTTGAGAGCCTTGAGCTGTGCGG 599

Db 1712 GCCGACCCGATCGACCTTCGATCGGCGAGCCGCCGAGACCTTCGAGTGGTGA 1771
 QY 600 GCGGCGAGGCCGCGACCTTCGACGTGGCCGTGGTGA 637
 Db 1772 CACGAAGCGCAGCGGATCTTCGACCTGTGTCTGCA 1809

Search completed: April 10, 2004, 16:18:59
 Job time : 96 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 11:20:44 / Search time 4163 Seconds

(without alignments)
10296.964 Million cell updates/sec

Title: US-10-017-407a-305

Sequence: 1 GCGGCGCCGCGAGTCGAGA.....CAAAAAAAAAAAAAAAAAA 989

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3470272 seqs, 2167151695 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

GenEmbl:
1: gb_da:
2: gb_hg:
3: gb_in:
4: gb_cm:
5: gb_cv:
6: gb_pac:
7: gb_ph:
8: gb_pl:
9: gb_pr:
10: gb_ro:
11: gb_sta:
12: gb_sy:
13: gb_un:
14: gb_vi:
15: gb_wa:
16: em_fun:
17: em_hum:
18: em_in:
19: em_mu:
20: em_om:
21: em_or:
22: em_ov:
23: em_pac:
24: em_ph:
25: em_pl:
26: em_ro:
27: em_sta:
28: em_un:
29: em_vi:
30: em_hg_hum:
31: em_hg_inv:
32: em_hg_other:
33: em_hg_mus:
34: em_hg_pin:
35: em_hg_rod:
36: em_hg_tam:
37: em_hg_vrt:
38: em_ey:
39: em_hgo_hum:
40: em_hgo_mus:
41: em_hgo_other:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	989	100.0	989	6	AX201342
2	989	100.0	989	6	AX697237
3	989	100.0	989	6	AX358476
4	989	99.7	1037	9	AX338454
5	989	99.7	1041	9	BC047774
6	989	99.3	985	6	BD222712
7	989	94.9	988	9	AK074421
8	907.8	91.8	913	9	BC023663
9	789	73.8	789	6	AX338456
10	625	63.2	946	10	BC049670
11	312	31.5	326	6	AX407985
12	309.2	31.3	237829	2	AC120475
13	256.8	26.0	38679	9	AL390034
14	256.8	26.0	169612	2	AC027393
15	224.6	22.7	157428	10	AL606832
16	224.6	22.7	209643	10	AC080018
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18	188.8	19.1	10840	1	AE004550
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DEFINITION	Sequence 21 from Patent WO0153466.	AX201342				
ACCESSION	AX201342					
VERSION	AX201342.1	GI:15391164				
KEYWORDS						
SOURCE						
ORGANISM	Homo sapiens (human)					
REFERENCE						
AUTHORS	1 Ashkenazi, A.J., Goddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J., Pitti, R.M., Roy, W.A., Smith, V., Stone, D.M., Watanabe, C.K. and Wood, W.I.					

TITLE Compositions and methods for the treatment of tumour
JOURNAL Patent: WO 0153486-A 21 26-JUL-2001;
Genentech, Inc. (US)
FEATURES Location/Qualifiers
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ORIGIN

Query Match 100.0%; Score 989; DB 6; Length 989;
Best Local Similarity 100.0%; Pred. No. 3,7e-125;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 TCCCGCCGCTCTCTCCGCGCCATGACCCAGCCGATGCCGCGCTCTCCGCTCTCCGCGCG 120
DB 61 TCCCGCCGCTCTCTCCGCGCCATGACCCAGCCGATGCCGCGCTCTCCGCTCTCCGCGCG 120
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LOCUS Sequence 305 from Patent WO0078961.
DEFINITION
ACCESSION AX697237
VERSION AX697237.1 GI:29498404
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE

1 Ferrara, N., Stewart, T.A., Williams, P.M., Baker, K.P., Desnoyers, L.,
Baton, D.L., Gao, W.Q., Pan, J., Botstein, D., Fong, S., Goddard, A.,
Godowski, P.J., Gueney, A.L., Smith, V., Tumas, D., Wood, W.I.,
Grimaldi, C.J., Hillan, K.J., Paoni, N.F., Roy, M.A. and Watanabe, C.K.
Secreted and transmembrane polypeptides and nucleic acids encoding
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Patent: WO 0078961-A 305 28-DEC-2000;
Genentech Inc. (US)

JOURNAL

TITLE

AUTHORS

FEATURES

source

ORIGIN

Query Match 100.0%; Score 989; DB 6; Length 989;
Best Local Similarity 100.0%; Pred. No. 3,7e-125;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 421 CGGAGTGGAG 480

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Best Local Similarity 100.0%; Pred. No. 3,7e-125;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      301 GCGTGTGCGAGATCTTCTGAGCGGCTTCATGCGGAGCAACCGGCGCTGCGAAGCTGA 360
DB      301 GCGTGTGCGAGATCTTCTGAGCGGCTTCATGCGGAGCAACCGGCGCTGCGAAGCTGA 360
QY      361 TCTTGTGCGCAACTGTGCGCGGCTCATTCAGGCGCAAGAGCGCTGAGACTTGCGGCACTTCA 420
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DB      661 CTTACTACGAGCGGTGCTGAGCGTGTGCGACCCGAGGCGATCTGCGCTCTTCAAG 720
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ACCESSION	AX338454
VERSION	AX338454.1 GI:18128693
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ORGANISM	Homo sapiens

REFERENCE	AUTHORS	TITLE
1	Meyers, R.A. and Williamson, M.	25692, a novel human o-methyltransferase family member and uses

JOURNAL Patent: WO 0183719-A 1 08-NOV-2001;
Millennium Pharmaceuticals, Inc. (US)

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LOCUS	BC047774			
DEFINITION	Homo sapiens hypothetical protein FLJ28841, mRNA (cDNA clone			
	WGC:54273 IMAGE:5761696), complete cds.			
ACCESSION	BC047774			
VERSION	BC047774.1			
KEYWORDS	WGC.			
SOURCE	Homo sapiens			
ORGANISM	Homo sapiens (human)			

REFERENCE

AUTHORS

1 (pages 1 to 1041)

Strausberg, R.L., Feligold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Schmen, C.M., Shat, N.K., Altschul, S.F., Zeeberg, B., Butler, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Chapleton, M., Soares, M.B., Brnald, M.F., Casavant, T., Scheet, T.E., Brownstein, M.J., Udell, T.B., Tschuyk, S.,

REMARK COMMENT	TITLE	JOURNAL MEDLINE PUBMED	REFERENCE AUTHORS TITLE JOURNAL
	Carinci, P., Prange, C., Rata, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mullaly, S.U., Bosak, S.A., McEwan, P.J., McKernan, K.U., Malek, J.A., Gamarale, P.H., Richards, S., Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Halys, S., Villalon, D.K., Mazy, D.M., Sodergren, E.U., Lu, X., Gibbs, R.A., Faney, J., Helton, E., Kettelman, W., Madan, A.C., Rodrigues, S., Sanchez, A., Whiting, W., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmitt, J., Myers, R.M., Butterfield, Y.S., Krzywinski, M.I., Skalela, U., Smalls, D.E., Scherch, A., Schein, J.E., Jones, S. J. and Marra, M.A.	Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)	22388257 12477932 2 (bases 1 to 1041) Straussberg, R. Direct Submission Submitted (03-Mar-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIH-MGC Project URL: http://mgc.ncl.nih.gov Contact: MGC help desk			

Contact: MGC help desk
Email: cgabs-rcmail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIML)
DNA Sequencing by: Sequencing Group at the Stanford Human Genome Center, Stanford University School of Medicine, Stanford, CA 94305
Web site: <http://www-bgc.stanford.edu>
Contact: (Dickson, Mark) mcdick@mail.stanford.edu
Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers, R. M.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.llnl.gov>
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 Location/Qualifiers

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253..870
/note="Methyltransf_3 Region: O-methyltransferase.
Members of this family are O-methyltransferases. The
family includes catechol o-methyltransferase, coffeoyl-CoA
o-methyltransferase and a family of bacterial
o-methyltransferases that may be involved in antibiotic
production"
/db_xref="CDD:Pfam01566"

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ORIGIN

[illegible]

COMMENT

NEBO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction, 5' - 3' - and one pass sequencing: Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).

FEATURES

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Location/Qualifiers

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CDS

ORIGIN

Query Match 94.3%; Score 938.2; DB 9; Length 988;
Best Local Similarity 99.7%; Pred. No. 2.9e-118;
Matches 940; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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347 CGAGAGAGCCAGAGCTTGGGCAACCTGGCGGCTCATCCAGGCGCAAGAGGCGCTG 406
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407 CTTGGGCAACCTTCAACGGGCTTACCTCGCCCTTGGCGCTGCTGCTGCTGCTG 466
361 CTTGGGCAACCTTCAACGGGCTTACCTCGCCCTTGGCGCTGCTGCTGCTGCTG 420
467 GCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 526
421 GCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
527 GCAGGCGGAGCGAGAGCAAGATGACCTCGGCTGAGAGCGCGCTTGGAGACCTTGA 586
481 GCAGGCGGAGCGAGAGCAAGATGACCTCGGCTGAGAGCGCGCTTGGAGACCTTGA 540
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RESULT 8
LOCUS BC023663
DEFINITION Homo sapiens cDNA clone MGC:29637 IMAGE:4897624, complete cds.
ACCESSION BC023663
VERSION BC023663.2 GI:40226187
KEYWORDS MGC.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1 (bases 1 to 913)
Straussberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, L., Shenier, C.M., Schuler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Scheffer, C.F., Bae, N.K., Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Hsieh, F., Datchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, J.L., Scheetz, T.E., Brownstein, M.J., Uebachs, T.B., Toshily, S., Carninci, P., Prange, C., Raha, S., Loguercio, N.A., Peters, G.J., Abramson, R.D., Mullan, S.J., Bosak, S.A., McMan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Morley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulik, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Rahy, U., Helton, E., Kettelman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Sherchenko, Y., Bouffard, G.G., Blakeley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butlerfield, Y.S., Krzywicki, M.I., Skalek, U., Smalme, D.E., Scherch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
2 (bases 1 to 913)
Direct Submission
Submitted (05-FEB-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA
NIG-MGC Project URL: <http://mgc.ncl.nih.gov>
On Dec 19, 2003 this sequence version replaced gi:23959051.
Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
CDNA Sequencing by: National Institutes of Health Intramural Sequencing Center (NISC),

Gaithersburg, Maryland;
Web site: <http://www.nisc.nih.gov/>

Blakesley, W., Bouffier, G.G., Breen, K., Binkley, C., Brooks, S., Dietrich, N. L., Graniter, S., Guan, X., Gupta, J., Haghighi, P., Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Latic, P., Legassy, R., Madhus, O. L., Mastello, C., Macker, B., Mastrian, S. D., McCloskey, J. C., McDowell, J., Pearson, R., Startzkop, S., Thomas, P. J., Touchman, J. W., Young, C., Vogt, J. L., Walker, M. A., Wehenby, K. D., Wiggins, L., Zhang, L. H. and Green, E. D.

clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <http://image.llnl.gov>
Series: IRAL Plate: 39 Row: 1 Column: 6
This clone was selected for full length sequencing because it passed the following selection criteria: Genescan gene prediction, similarity but not identity to protein.

FEATURES

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CDS

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[illegible]

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Db	421	CCCCGAGCTGGGACGCGCCCTGTGAGGCGACGCGCGAGGCGGAGCACAAGTCAACTCC	480
QY	559	GGGTGAAGCCCGCCTTTGGAGAACCTGAGCGAGCTGTGGCGCGCGGCGGAGCCCGGACCT	618
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QY	739	TGCTGCAACCTCCGAAAGGGGACGTGGGCGCGAGTGGTGCAGAACTTAAAGAACGCA	798
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QY	799	TCCGCGGGGACGTACAGGCTTACATCAAGCTCTTCGCCCTTGGCGATGGAACCTCACTTGG	858
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SOURCE				
ORGANISM		Homo sapiens (human)		
TITLE		Homo sapiens		
AUTHORS		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.		
REFERENCE		1		
		Meyers, R.A. and Williamson, M.		
		25892, a novel human o-methyltransferase family member and uses thereof		
JOURNAL		Patent: WO 0183719-A 3 08-NOV-2001;		
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ACCESSION BC049670
VERSION   BC049670.1 GI:29612504
KEYWORDS MGC.
SOURCE   Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus;
1 (bases 1 to 946)
Struhsberg, R.L., Feinberg, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shennan, C.M., Schley, G.D.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.T., Wang, D., Hsieh, F.,

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FEATURES
source
gene
CDS

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Diatchenko, L., Marusik, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Schneitz, T.E., Brownstein, M.J., Udell, T.B., Tothiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.U.,
Abramson, R.D., Mullany, S.J., Bosak, S.A., Mobwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulik, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Sanchez, A., Whitton, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.N.,
Butterfield, Y.S., Krzywicki, M.I., Skalska, U., Smalusz, D.E.,
Scherer, A., Schein, J.E., Jones, S.J., Skalska, U., Smalusz, D.E.,
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
12477932
2 (bases 1 to 946)
Struhsberg, R.
Direct Submission
Submitted (31-MAR-2003) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.nci.nih.gov>
Contact: MGC help desk
Email: cgapsb-remail.nih.gov
Tissue Procurement: Dr. Michael Brownstein
Cancer Library Preparation: Michael Brownstein / Ted Usdin
Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Genome Sequence Centre,
BC Cancer Agency, Vancouver, BC, Canada
info@bogs.bc.ca
Steven Jones, Jennifer Asano, Ian Bosdet, Yaron Butterfield,
Susanna Chan, Readman Chiu, Chris Fell, Erin Garland, Ran Guin,
Leticia Hsiao, Martin Krzywicki, Reta Kusche, Oliver Lee, Soo
Sen Lee, Victor Ling, Carrie Mathewson, Candice McLeavy, Steven
Neess, Pawan Pandoh, Anna-Lisa Prabhu, Parvaneh Saeedi, Jacqueline
Schein, Duane Smalusz, Michael Smith, Loraine Spence, Jeff Stott,
Michael Thorne, Miranada Tsai, Natasja van den Bosch, Jill Vardy,
George Yang, Scott Zuyderduyn, Marco Marra.
Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/ILNL at: <http://image.llnl.gov>
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ORIGIN

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Best Local Similarity 80.4%; Pred. No. 1e-75;
Matches 745; Conservative 0; Mismatches 180; Indels 2; Gaps 1;

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DB 73 CTGGCCCTGGGCTCAGCCGCGCTGGGCGCGGCTTCCGCTATGCTCTTCTGGGAAA 132
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RESULT 11
AX407985/c 326 bp DNA linear PAT 14-JUN-2002
LOCUS Sequence 632 from Patent WO0229103.
DEFINITION AX407985
ACCESSION AX407985
VERSION AX407985.1 GI:21440690
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE
1 Alvarez, C., Horne, D., Peres-da-Silva, S. and Vockley, J.G.
Gene expression profiles in liver cancer
Patent: WO 0229103-A 632 11-APR-2002;
GENE LOGIC INC (US)
Location/Qualifiers
1..326
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
/note="EMBL/GenBank Accession No. AA279840"

ORIGIN

Query Match 31.5%; Score 312; DB 6; Length 326;
Best Local Similarity 99.7%; Pred. No. 4.4e-33;
Matches 323; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 649 AGAAGCTGCTCCGCC-TACTACAGAGCGCTGCGAGCTGCGAGCCCGGAGAGATCC 707
DB 326 AGAAGCTGCTCCGCCCTTACTACAGAGCGCTGCGAGCTGCGAGCCCGGAGAGATCC 267
QY 708 GCCGTCTGAGAGCTCTGTGTGGCGGAGAGAGTGTGCAACCTCCGAAAGGAGAGCT 767
DB 266 GCCGTCTGAGAGCTCTGTGTGGCGGAGAGAGTGTGCAACCTCCGAAAGGAGAGCT 207
QY 768 GCCGATGTGTGGAAACCTTAACGAGACCGCGGAGAGAGTGTGCAACCTCCGAAAGG 827
DB 206 GCCGATGTGTGGAAACCTTAACGAGACCGCGGAGAGAGTGTGCAACCTCCGAAAGG 147
QY 828 CTCCTGCCCTGGGCGAGTGAAGCTTCAAGATCTAGAGAGAGAGAGAGAGAGAGAG 887
DB 146 CTCCTGCCCTGGGCGAGTGAAGCTTCAAGATCTAGAGAGAGAGAGAGAGAGAGAG 87
QY 888 AGTGGCTGAGAGAGAGAGTGTGCTGGAGAACCCCAAGAAATTGACCTTGAATTG 947
DB 86 AGTGGCTGAGAGAGAGAGTGTGCTGGAGAACCCCAAGAAATTGACCTTGAATTG 27
QY 948 AAATTAAGTGGGCTGGAGACA 971
DB 26 AAATTAAGTGGGCTGGAGACA 3

RESULT 12
AC120475 237829 bp DNA linear HTG 20-NOV-2002
LOCUS AC120475
DEFINITION Rattus norvegicus clone CH230-34D17, WORKING DRAFT SEQUENCE, 2
unnumbered pieces.
ACCESSION AC120475
VERSION AC120475.7 GI:25137871
KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT; HTGS_FUL1TOP.
SOURCE Rattus norvegicus
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
1 (bases 1 to 237829)

AUTHORS
 Muzny, D., Marie, Metzker, M., Lee, Abramson, S., Adams, C., Alder, J., Allen, C., Allen, H., Albrooks, S., Amin, A., Angiano, D., Anyalebechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benham, F., Biswal, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, I., Cesar, H., Center, A., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J., Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M., L., Davis, C., Davy-Carroll, L., De Anda, C., Decker, D., Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escotto, M., Eugene, C., Evans, C., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C., Gabisi, A., Gait, R., Garcia, A., Garner, T., Garza, M., Gboreeogbe, E., Geer, K., Grady, M., Guerra, M., Guevara, M., Gunaratne, P., Haaland, W., Hamill, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hladun, S., L., Hodgson, A., Hogue, M., Hollins, B., Howell, S., Hu, Y., Hume, J., Idlebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolyet, A., Karpachy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Koyar, C., Kowis, C., Kraft, C., L., Ledow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorenshewa, L., Loulseged, H., Lozada, R., J., Lu, X., Ma, J., Mangunbari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, A., Manthey, S., McLeod, M., P., McNeill, T., Z., Meener, E., Mloavejle, A., A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Muidasa, V., Murphy, M., Nair, L., Narkervia, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nwakoeleneh, O., Okwunu, G., Olarunpasegun, A., Pal, S., Pakks, K., Paternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C., Plopper, F., Polidexter, A., Popovic, D., Primus, E., Pu, L., L., Puzo, M., Quirco, J., Rachin, E., Reeves, K., Regier, M., A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Rives, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruiz, S., J., Sanders, W., Saverly, G., Scheier, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C., D., Smas, D., Sneed, A., Sodergren, E., Song, X., Z., Sorelle, R., Soes, J., Steinle, M., Strong, R., Sutton, A., Swatek, A., Taber, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K., Valas, R., Vera, V., Villaseña, D., Waldron, J., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, K., White, F., Williams, G., Willson, R., Wleczky, R., Woodson, H., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederhausen, A., Weiss, R., Smith, D., R., Holt, R., A., Smith, H., O., Weinstock, G., and Gibbs, R., A.

TITLE
 Direct Submission

JOURNAL
 Unpublished

REFERENCE
 2 (bases 1 to 237829)

AUTHORS
 Worley, K., C.

TITLE
 Direct Submission

JOURNAL
 Submitted (07-MAY-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

REFERENCE
 3 (bases 1 to 237829)

AUTHORS
 Rat Genome Sequencing Consortium.

TITLE
 Direct Submission

JOURNAL
 Submitted (20-NOV-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

COMMENT
 On Nov 20, 2002 this sequence version replaced gi:23267656. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole

genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.

----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: <http://www.hgsc.bcm.tmc.edu/>
 Contact: hgsc-help@bcm.tmc.edu

----- Project Information
 Center project name: GXRH
 Center clone name: CH230-34D17

----- Summary Statistics
 Assembly program: Phrap; version 0.990329
 Consensus quality: 218320 bases at least Q40
 Consensus quality: 223359 bases at least Q30
 Consensus quality: 225092 bases at least Q20
 Estimated insert size: 222440; sum-of-contigs estimation
 Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

 * NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/genbank_draft_data.html).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 2 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

1 236267: contig of 236267 bp in length
 236268 236567: gap of unknown length
 * 236368 237829: contig of 1462 bp in length.

FEATURES
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 /db_xref="taxon:10116"
 /clone="CH230-34D17"
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 2227..3684
 /note="wgs end extension
 clone end:5p6"
 7112..7990
 /note="clone boundary
 clone end:5p6
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 complement(233022..233942)
 /note="clone boundary
 clone end:T7
 site:
 end_sequence:BH358581"

ORIGIN
 Query Match 31.3%; Score 309.2; DB 2; Length 237829;
 Best Local Similarity 69.6%; Pred. No. 2e-33;
 Matches 433; Conservative 0; Mismatches 188; Indels 1; Gaps 1;

53 TCATGCTTCGCGCGGCTCTGCGCGGCGCATGACCGAGCGGCTCCCGGCTTCGGT 112
 |||||
 81826 TTACTGATCCCAAGTCTGCTCCCTTACTCAGCAGCATGACCTTCCTTGGTAACT 81865
 |||||
 113 GCGCGCGCGGCTGCGCGCTGAGGCTGACGCGCGCGCGCTTCGCGACATGCGCTTT 172
 |||||
 81886 CCGACCAATGACCGACCGAGTCTGCGGTGTCTATCTCCACCGCGCTGCGCTTCCTT 81945
 |||||
 173 CCGGCGGAGCGCGTGCCTCCCATGCGCGCGCGGAGAGCATGCTGCTTCCTCCCGCA 232
 |||||
 81946 CCGGCGGAAATGCTGCTCCCTGCGGCGGTCCAGATGCGCATGCGCATGCTGCTTCCTTCA 82005
 |||||
 233 GGAACGCGCGCTGTGCGAGTATCTTCTGAGCGGCTTCATGCGGAGGAGCACCGGCGCTGCG 292

Db 82006 GGAATATCCCTGAGAGATCTGAGAGCTGCTCATAGAGAACACCGAGCTGGG 82065
 Oy 293 AAGCTGAGAGCTGAGACCTGAGAGAGAGAGAGAGATCTATGATGAGACCTGAGAGA 352
 Db 82066 GAGCTGAGAGCTGAGACCTGAGAGAGAGAGAGAGATCTATGATGAGACCTGAGAGA 82125
 Oy 353 GGGCCAGCTCTTGGCCAACTGAGAGAGAGAGAGAGATCTATGATGAGAGAGAGAGAG 412
 Db 82126 GGGCCAACTCTTGGCCAACTGAGAGAGAGAGAGAGATCTATGATGAGAGAGAGAG 82185
 Oy 413 CACCTTACAGAGAGCTA-CTCCGAGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 471
 Db 82186 TACTTTGACGAGAGCTACCTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 82245
 Oy 472 TGTGAGCTGAG 531
 Db 82246 TGTGAGCTGAG 82305
 Oy 532 CCGAG 591
 Db 82306 CAG 82365
 Oy 592 TGCTGAG 651
 Db 82366 TCCTGAG 82425
 Oy 652 ACTGCTCCGCTACTAGAGAGG 673
 Db 82426 CTGCTGCACTCTTACGAGCCG 82447

RESULT 13
 AL390034/c 38679 bp DNA linear PRI 01-JAN-2002
 LOCUS Human DNA sequence from clone RP11-375G3 on chromosome 10, complete
 DEFINITION
 ACCESSION AL390034 GI:18041549
 VERSION AL390034.23
 KEYWORDS HTG.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 38679)
 Wray, P.
 Direct Submission
 Submitted (01-JAN-2002) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: hunquerry@sanger.ac.uk
 On Jan 2, 2002 this sequence version replaced gi:18032099.
 During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.
 This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em, EMBL; SW, SWISSPROT; Tr, TREMBL; Wp, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep
 This sequence was generated from part of bacterial clone configs of human chromosome 10, constructed by the Sanger Centre Chromosome 10 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Chr10>

RP11-375G3 is from the library RPEC1-11.2 constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/bacpac/home.htm>
 VECTOR: pBAC3.6
 IMPORTANT: This sequence is not the entire insert of clone RP11-375G3. It may be shorter because we sequence overlapping sections only once, except for a short overlap.
 The true left end of clone RP11-39K21 is at 36680 in this sequence. The true right end of clone RP11-48715 is at 2000 in this sequence.
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 /db_xref="taxon:9606"
 /chromosome="10"
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 /note="Sequence from uni-directional dGTP big dye terminator reads only."
 misc_feature
 ORIGIN
 Query Match 26.0%; Score 256.8; DB 9; Length 38679;
 Best Local Similarity 97.4%; Pred. No. 4.1e-26; Indels 0; Gaps 0;
 Matches 261; Conservative 7; Mismatches 7;
 Oy 704 CCTGCGCTCTCAGAGTCTGTGCGCGGAGAGTGTGCAACCTCGAAAGGAGAGCT 763
 Db 7761 CCGCGCTCTCCGAGAGTCTGTGCGCGGAGAGTGTGCAACCTCGAAAGGAGAGCT 7702
 Oy 764 GCGCGCGAGTGTGTGCGAAACCTTAAGAGAGCTCGCGGAGAGCTCAGGCTACAT 823
 Db 7701 GCGCGCGAGTGTGTGCGAAACCTTAAGAGAGCTCGCGGAGAGCTCAGGCTACAT 7642
 Oy 824 CAGCTCTGCGCTCGCGGAGAGTGTGCAACCTCGGCTTCAAGATCTAGGCTGAGCCCT 883
 Db 7641 CAGCTCTGCGCTCGCGGAGAGTGTGCAACCTCGGCTTCAAGATCTAGGCTGAGCCCT 7582
 Oy 884 AGTGAAGTGTGCGAGAGAGTGTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 943
 Db 7581 AGTGAAGTGTGCGAGAGAGTGTGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 7522
 Oy 944 TTGGAATAATAGTGGGCTGGAGACA 971
 Db 7521 TTGGAATAATAGTGGGCTGGAGACA 7494

RESULT 14
 AC027393/c 169612 bp DNA linear HTG 24-AUG-2002
 LOCUS Homo sapiens chromosome 10 clone RP11-770D23 map 10, WORKING DRAFT
 DEFINITION
 ACCESSION AC027393 GI:8076860
 VERSION AC027393.3
 KEYWORDS HTG; HTGS_PHASE1; HTGS_DRAFT.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 169612)
 Birren, B., Linton, J., Nussbaum, C., Lander, E., Abraham, H., Allen, N., Anderson, S., Baldwin, J., Barna, N., Baerlein, V., Bedalov, F., Boguslavskiy, L., Boukhalil, B., Brown, A., Burkett, G., Campitolo, A., Carle, A., Choquet, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., DeRubeis, K., Dewar, K., Diaz, J.S., Dodge, S., Domino, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D., Galagan, J., Gardyna, S., Ginde, S., Goyette, M., Graham, L., Grand-Pierre, N., Grant, G., Hagos, B., Heath, A., Horton, L.,

Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kam, L., Karatas, A., Klein, J., Lacroque, K., Lamazares, R., Landers, T., Lehoczy, U., Levine, R., Lieu, C., Liu, G., Locke, K., MacDonald, P., Marquis, N., McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheters, R., Meldrum, J., Meneus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J., Murphy, T., Naylor, U., Norman, C. H., O'Connor, T., O'Donnell, P., O'Neill, D., Olliver, T. M., Oliver, J., Peterson, K., Pierre, N., Pisanu, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D., Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J., Testa, S., Theodore, J., Tirrell, A., Travers, M., Triggillo, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, J., Zimmer, A. and Zody, M.

Direct Submission
Submitted (30-MAR-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
3 (bases 1 to 169612)

TITLE JOURNAL AUTHORS

Birren, B., Hinton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N., Anderson, S., Balwin, J., Barna, N., Bastien, V., Beda, F., Boguslavsky, L., Bouckdagter, B., Brown, A., Burkett, G., Campopiano, A., Castle, A., Choe, P., Colangelo, M., Collins, S., Collamore, A., Cooke, P., Dearrellano, K., Dewar, K., Diaz, J. S., Dodge, S., Domingo, M., Doyle, M., Ferreira, P., Fitzhugh, W., Gage, D., Galagan, J., Gardyna, S., Glend, S., Goyette, M., Graham, L., Grand-Pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L., Howland, J. C., Iliev, I., Johnson, R., Jones, C., Kam, L., Karatas, A., Klein, J., Lacroque, K., Lamazares, R., Landers, T., Lehoczy, U., Levine, R., Lieu, C., Liu, G., Locke, K., MacDonald, P., Marquis, N., McCarthy, M., McEwan, P., McGurk, A., McKernan, K., McPheters, R., Meldrum, J., Meneus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J., Murphy, T., Naylor, J., Norman, C. H., O'Connor, T., O'Donnell, P., O'Neill, D., Oliver, T. M., Oliver, J., Peterson, K., Pierre, N., Pisanu, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D., Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B., Stange-Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J., Testa, S., Theodore, J., Tirrell, A., Travers, M., Triggillo, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Ye, W. J., Young, G., Zainoun, J., Zimmer, A. and Zody, M.

Direct Submission
Submitted (24-AUG-2002) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA
On May 25, 2000 this sequence version replaced g1:7652066.
All repeats were identified using RepeatMasker:
Smit, A.F.A. & Green, P. (1996-1997)
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

COMMENT

Center: Whitehead Institute/ MIT Center for Genome Research
Center code: WISR
Web site: <http://www-seq.wi.mit.edu>
Contact: sequence.submissions@genome.wi.mit.edu
Project Information
Center project name: L6572
Center clone name: 770.D.23
Summary Statistics
Sequencing vector: M13; M7815; 100% of reads
Chemistry: Dye-terminator Big Dye; 100% of reads
Assembly program: Phrap; version 0.960731
Consensus quality: 155213 bases at least Q40
Consensus quality: 162022 bases at least Q30
Consensus quality: 164973 bases at least Q20
Insert size: 178000; agarose-fp
Insert size: 166912; sum-of-contigs
Quality coverage: 4.1 in Q20 bases; agarose-fp
Quality coverage: 4.4 in Q20 bases; sum-of-contigs

NOTE: This is a 'working draft' sequence. It currently consists of 28 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

FEATURES	source
1	1191: contig of 1191 bp in length
1192	1291: gap of 100 bp
1292	2404: contig of 1113 bp in length
2405	2504: gap of 100 bp
2505	3705: contig of 1201 bp in length
3706	3805: gap of 100 bp
3806	4734: contig of 929 bp in length
4735	4834: gap of 100 bp
4835	6570: contig of 1736 bp in length
6571	6670: gap of 100 bp
6671	8583: contig of 1913 bp in length
8584	8683: gap of 100 bp
8684	10290: contig of 1607 bp in length
10291	10390: gap of 100 bp
10391	11938: contig of 1548 bp in length
11939	12038: gap of 100 bp
12039	15839: contig of 3801 bp in length
15840	15939: gap of 100 bp
15940	19203: contig of 3284 bp in length
19204	19303: gap of 100 bp
19304	22581: contig of 3278 bp in length
22582	22681: gap of 100 bp
22682	24947: contig of 2266 bp in length
24948	25047: gap of 100 bp
25048	28157: contig of 3120 bp in length
28158	28267: gap of 100 bp
28268	32083: contig of 3816 bp in length
32084	32183: gap of 100 bp
32184	35533: contig of 3350 bp in length
35534	35633: gap of 100 bp
35634	41517: contig of 5884 bp in length
41518	41617: gap of 100 bp
41618	47143: contig of 5526 bp in length
47144	47243: gap of 100 bp
47244	51694: contig of 4451 bp in length
51695	51794: gap of 100 bp
51795	57570: contig of 5776 bp in length
57571	57670: gap of 100 bp
57671	63190: contig of 5520 bp in length
63191	63280: gap of 100 bp
63291	70708: contig of 7418 bp in length
70709	70808: gap of 100 bp
70809	78988: contig of 8180 bp in length
78989	79088: gap of 100 bp
79089	86327: contig of 7439 bp in length
86328	86427: gap of 100 bp
86428	99114: contig of 12487 bp in length
99115	99214: gap of 100 bp
99215	110221: contig of 11007 bp in length
110222	110321: gap of 100 bp
110322	123287: contig of 12366 bp in length
123288	123387: gap of 100 bp
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147878	147977: gap of 100 bp
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2505..3705	/note="assembly_fragment"
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51795..57570	/note="assembly_fragment"
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misc_feature      6671..8583
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Best Local Similarity 97.4%; Pred. No. 2.8e-26;
Matches 261; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      764 CCTCCCTCTCTCAAGTCTCTGCGCGGGAAGGTGTCGACCTCCGAAAGGGAGCT 763
DB      140411 CCCCCCTCCCGCAGTCTCTGCGCGGGAAGGTGTCGACCTCCGAAAGGGAGCT 140352

QY      764 GCGGCGCAGTGTGTCGAAACCTAAAGCAAGCATCCGCGGGAAGGTGTCGACCTCCGAAAGGGAGCT 823
DB      140351 GCGGCGCAGTGTGTCGAAACCTAAAGCAAGCATCCGCGGGAAGGTGTCGACCTCCGAAAGGGAGCT 140292

QY      824 CAGCTCTCTGCGCGGCGATGACCTGCTGACCTCTCAAGTCTGAGGCTGACCTCCCT 883
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QY      884 AGTAGTGGGCTCGAGGAGGAGTCTCTGAGAACCCAGAAATTGACCTGAGTTTAAA 943
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QY      944 TTGGAATAAAGTGGGCTGAGACACA 971
DB      140171 TTGGAATAAAGTGGGCTGAGACACA 140144

RESULT 15
AL606832/c      AL606832      157428 bp      DNA      linear      ROD 14-MAR-2002
DEFINITION      Mouse DNA sequence from clone RP23-346G22 on chromosome 3, complete
sequence.
ACCESSION      AL606832
VERSION      AL606832.4      GI:19571952
KEYWORDS
SOURCE
ORGANISM
Mus musculus (house mouse)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
Garner P.
1 (bases 1 to 157428)
AUTHORS
Direct Submission
JOURNAL
Submitted (14-MAR-2002) Wellcome Trust Sanger Institute, Hinxton,

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COMMENT
Cambridgehire, CB10 1SA, UK. E-mail enquiries:
humquery@sanger.ac.uk Clone requests: clonerequests@sanger.ac.uk
On Mar 21, 2002 this sequence version replaced gi:19031533.
During sequence assembly data is compared from overlapping clones.
Where differences are found these are annotated as variations
together with a note of the overlapping clone name. Note that the
variation annotation may not be found in the sequence submission
corresponding to the overlapping clone, as we submit sequences with
only a small overlap as described above.
This sequence was finished as follows unless otherwise noted: all
regions were either double-stranded or sequenced with an alternate
chemistry or covered by high quality data (i.e., phred quality >=
30); an attempt was made to resolve all sequencing problems, such
as compressions and repeats; all regions were covered by at least
one plasmid subclone or more than one M13 subclone; and the
assembly was confirmed by restriction digest. The following
abbreviations are used to associate primary accession numbers given
in the feature table with their source databases: Em: EMBL; Sw:
SWISSPROT; Tr: TrEMBL; Wp: WormPEP; Information on the WormPEP
database can be found at
http://www.sanger.ac.uk/Projects/C_elegans/wormpep RP23-346G22 is
from the RPI-23 Mouse PAC Library
constructed by the group of Pieter de Jong.
For further details see http://www.chori.org/bacpac/home.htm
VECTOR: pBACE3.6
IMPORTANT: This sequence is not the entire insert of clone
RP23-346G22. It may be shorter because we sequence overlapping
sections only once, except for a short overlap.
The true right end of clone RP23-346G22 is at 157428 in this
sequence. The true left end of clone RP23-49014 is at 39071 in this
sequence. The true right end of clone RP23-265019 is at 2000 in
this sequence.

FEATURES
Location/Qualifiers
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/chromosome="3"
/clone="RP23-346G22"
/clone_11b="RPI-23"
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/note="Sequence from overlapping clone RP23-49014
(AL606747). Assembly confirmed by restriction digest."
117168..117122
/note="single clone region. Assembly confirmed by
restriction digest data. Single read sequenced with dGTP
big dye terminator chemistry."

ORIGIN
Query Match      22.7%; Score 224.6; DB 10; Length 157428;
Best Local Similarity 70.2%; Pred. No. 6.8e-22;
Matches 391; Conservative 0; Mismatches 124; Indels 42; Gaps 5;

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QY      129 CTGGGCTCAGCGCATGCGCGCGCGCTGCGCATGCGCGCTCTTCTCGGGAGCGGTC 188
DB      11867 CTGGGCTCAGCGCATGCGCGCGCGCTGCGCATGCGCGCTCTTCTCGGGAGCGGTC 11809

QY      189 CCCCCATGCGCAGGCGCGCG-----AGACAGTCTGCTTCCCTCCCGAGACAGC 240
DB      11808 CTTCCGTTGGGGGGCGGGGGGTAGGACAGCATGCTGCTTCCCGACCTGAGGACATC 11749

QY      241 GCGTGTGAGAGATCTTGAAGCCGCTCATGCGGGAGACACCGGCGCTGCGAAGCTGA 300
DB      11748 CCGTGTGAGAGATCTTGAAGCCGCTCATGCGGGAGACACCGGCGCTGCGAAGCTGT 11698

QY      301 GCGTGTGACCTGTGAGACAGCGCGAGGAGATTATATGATGACTTGTGAGACAGGCCACG 360
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QY 361 TCTTGCCCAACTGGCGGCTCATCCAGGCCAAGAGCGCTGGACCTGGGCACCTTCA 420
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QY 421 CGGCTACTCGGCGGCTGGCGGCTGGCGGCTGGCGGCTGGCGGCTGGCGGCTGGCGGCT 480
Db 11577 CGGCTACTCGATCTGGCGGCTGGCGGCTGGCGGCTGGCGGCTGGCGGCTGGCGGCT 11528
QY 481 GCGAGTGGACGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 540
Db 11527 -----TGCAGAGCGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGGAGCGG 11478
QY 541 AGCAAGATGAGCTCGGCTGAGCGGCGGCTG-----GAGACCTGGAGCGAGCTGCTG 596
Db 11477 AGCAAGATGAGCTTTGGCTACAGCGGCGGCTGCAAGACAGATGTTGAGCTCTG 11418
QY 597 GCGGCGGCGGAGGCGG 613
Db 11417 GTGAGGCGGAGGCGG 11401

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Search completed: April 10, 2004, 15:25:42
 Job time : 4168 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 09:41:29 ; Search time 472 Seconds

(without alignments)
8901.415 Million cell updates/sec

Title: US-10-017-407a-305

Sequence: 1 gcgggccccgcagctccgcaga.....caaaaaaaaaaaaaaaaaa 989

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 212409041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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9: geneseq2003cs:*
10: geneseq2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	989	100.0	989	6	ABK40264 DNA encoc
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13	989	100.0	989	9	ADD38943 Human CD
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15	989	100.0	989	9	ADDE50595 Human CD
16	989	100.0	989	9	ADDE20207 Human CD
17	989	100.0	989	9	ADE50118 Human CD
18	989	100.0	989	9	ADE21676 Human CD
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21	981.8	99.3	1100	6	ABQ61039 Human PRO
22	938.2	94.9	967	6	AAH33455 Human CD
23	799.8	80.9	812	3	AACT6634 Human ORF

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26	701	70.9	885	8	AAD56361
27	422	42.7	474	8	ACH35195
28	413	41.8	458	8	ACH35890
29	404.4	40.9	770	9	ADD34178
30	312	31.5	326	6	ABR94134
31	185.8	18.8	2381	2	AAQ44449
32	174.8	17.7	178	4	AAOC89765
33	161.8	16.4	953	6	ABSG63429
34	159.2	16.1	1049	6	ABSG63428
35	158.6	16.0	1997	6	ABSG63413
36	158.6	16.0	1338	7	ADA771076
37	157.2	15.9	1078	6	ABSG63427
38	155.6	15.7	1018	6	ABSG63424
39	154	15.6	891	6	ABSG63407
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ALIGNMENTS

RESULT 1	AA37107	AA37107 standard; cDNA, 989 BP.
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DT	08-AUG-2000	(first entry)
DE	Human PRO1558 (UNQ766) cDNA sequence SEQ ID NO:305.	
XX		
KW	Human; PRO polypeptide; membrane bound protein; receptor; diagnosis; transmembrane; secretion; immunoadhesion; pharmaceutical; screening; se.	
XX		
OS	Homo sapiens.	
XX		
FN	WO200012708-A2.	
XX		
PD	09-MAR-2000.	
XX		
PF	01-SEP-1999;	99MO-US020111.
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PR	01-SEP-1998;	98US-0098716P.
PR	01-SEP-1998;	98US-0098749P.
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PR	02-SEP-1998;	98US-0098803P.
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PR	09-SEP-1998;	98US-0098843P.
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PR	10-SEP-1998;	98US-0099816P.
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PR	15-SEP-1998;	98US-0100388P.
PR	15-SEP-1998;	98US-0100390P.
PR	16-SEP-1998;	98US-0100584P.
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ABA05420	Human O-m
Aad56372	Human sec
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ABSG63407	Nucleotid
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ABZ40101	N. gonorr

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PR 29-OCT-1998; 98US-0106384P.
PR 29-OCT-1998; 98US-0108500P.
PR 30-OCT-1998; 98US-0106464P.

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PR 03-NOV-1998; 98US-0106856P.
PR 03-NOV-1998; 98US-0106903P.
PR 03-NOV-1998; 98US-0106905P.
PR 03-NOV-1998; 98US-0106919P.
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PR 10-NOV-1998; 98US-0107833P.
PR 17-NOV-1998; 98US-0108775P.
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PR 18-NOV-1998; 98US-0108852P.
PR 18-NOV-1998; 98US-0108858P.
PR 18-NOV-1998; 98US-0108904P.
PR (GENET) GENENTECH INC.
PA Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;
PI MPI; 2000-237871/20.
DR F-PDB; AAY9425.
XX New mammalian DNA sequences encoding transmembrane, receptor or secreted
PT PRO polypeptides, useful for screening of potential peptide or small
PT molecule inhibitors of the relevant receptor/ligand interactions.
XX Claim 2; Fig 171; 773pp; English.
XX
XX AAA37022 to AAA37144 encode the new isolated human transmembrane,
CC receptor or secreted PRO polypeptides given in AA93930 to AA93462. The
CC transmembrane and receptor PRO proteins can be used for screening of
CC potential peptide or small molecule inhibitors of the relevant
CC receptor/ligand interactions. The polypeptides and nucleotide sequences
CC encoding them have various industrial applications, including uses as
CC pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent PCR
CC primers and hybridisation probes used in the isolation of the PRO
XX polypeptides from the present invention
XX
XX Sequence 989 BP; 169 A; 335 C; 335 G; 150 T; 0 U; 0 Other;
SQ
Query Match 100.0%; Score 989; DB 3; Length 989;
Best Local Similarity 100.0%; Pred. No. 3.6e-156;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 GCGGGCCCGCAGTCCGAGACCTGTCGAGAGCTCCAGCTCAGCTGACCTGTACCTGCC 60
QY 61 TCCCGCGGCTCTCTCCGCGGCGCATGACCGCGGTGCGGCTCTCCGTGCGGCGG 120
DB 61 TCCCGCGGCTCTCTCCGCGGCGCATGACCGCGGTGCGGCTCTCCGTGCGGCGG 120
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QY 241 GCGTGTGAGGAGTATCTTCTGAGCCGCTCAGCGGAGAGACCCGGCGCTGCGAAGCTTGA 300
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DB 361 TCTTGGCAACCTGAGCGGCTCATCCAGGCAAGAGGCGCTGAGACCTGGGACCTTCA 420
QY 421 CGGAGTACTCCGCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCT 480
DB 421 CGGAGTACTCCGCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCT 480
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QY 541 AGCAACAAGATGACCTCCGCTGAAAGCCGCTTGAAGACCTGAGACGAGCTGCGCG 600
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QY 601 CGGCGAGGCGCGGACCTTGAAGCTGCGCTGAGTGGAGTGGAGCAAGAGAACTGCTCC 660
DB 601 CGGCGAGGCGCGGACCTTGAAGCTGCGCTGAGTGGAGTGGAGCAAGAGAACTGCTCC 660
QY 661 CCTACTAGAGCGCTGCTGAGCTGCGAGCCCGAGGAGCTGCTGCGCTGCTGAGAG 720
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QY 721 TCTGTGGCGGAGGAGTGTGCTGCACTCCGAAAGGAGGAGTGGCGGCGAGTGTGTG 780
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RESULT 2
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AC
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DT 02-APR-2001 (first entry)
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DE DNA encoding protein of the invention #84.
XX
KM Secreted; transmembrane; gene therapy; ss.
XX
OS Unidentified.
XX
PN W0200078961-A1.
XX
PD 28-DEC-2000.
XX
PF 18-FEB-2000; 2000WO-US004342.
XX
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.

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PR 01-SEP-1999; 99WO-US020111.  
PR 29-OCT-1999; 99US-0162506P.  
PR 30-NOV-1999; 99WO-US028313.  
PR 02-DEC-1999; 99WO-US028551.  
PR 16-DEC-1999; 99WO-US030095.  
PR 05-JAN-2000; 2000WO-US000219.  
PR 06-JAN-2000; 2000WO-US000376.  
XX  
XX (GENENTECH INC.  
XX  
XX Baker KP, Botstein D, Deenoyers L, Batton DL, Ferrara N, Fong S;  
XX Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;  
XX Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tamas D, Watanabe CK;  
XX Williams PM, Wood WI;  
XX WPI, 2001-071395/08.  
XX  
XX Secreted and transmembrane proteins and nucleic acids designated PRO,  
XX PT useful as hybridization probes, in chromosome and gene mapping and gene  
XX PT therapy.  
XX  
XX PS Claim 2; Fig 167; 787bp; English.  
XX  
XX CC The present invention relates to secreted and transmembrane proteins.  
XX CC These proteins and the DNA encoding them may be used as hybridization  
XX CC probes, in chromosome and gene mapping and in the generation of anti-  
XX CC sense RNA and DNA. They may also be used to generate either  
XX CC transgenic animals or knockout animals which are in turn useful for  
XX CC development and screening of therapeutically useful reagents. The nucleic  
XX CC acids may also be used in gene therapy  
XX  
XX SQ Sequence 989 BP; 169 A; 335 C; 335 G; 150 T; 0 U; 0 Other;  
XX  
XX Query Match 100.0%; Score 989; DB 4; Length 989;  
XX Best Local Similarity 100.0%; Pred. No. 3, 6e-156;  
XX Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCGGAGCCGCGAGTCCGAGACCTGTCCGAGAGCTCCAGCTGACGTCGTCCTGCC 60  
DB 1 GCGGAGCCGCGAGTCCGAGACCTGTCCGAGAGCTCCAGCTGACGTCGTCCTGCC 60  
QY 61 TCCGCGCGCTCTCCGCGCGCGCGCGCATGACCCGAGCGGTCGCCGAGCCGCGCG 120  
DB 61 TCCGCGCGCTCTCCGCGCGCGCGCGCATGACCCGAGCGGTCGCCGAGCCGCGCG 120  
QY 121 CGCTGAGCCCTGAGGCTCAGCCGACCTGAGCGCGCGCTTGGCCACTGCGCTTCTTCTGAGGA 180  
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QY 181 GCGGCTGCCCCCATGAGGAGGCGGAGGCGGAGGAGTGTCTTCCCGGAGAGCAGCC 240  
DB 181 GCGGCTGCCCCCATGAGGAGGCGGAGGCGGAGGAGTGTCTTCCCGGAGAGCAGCC 240  
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DB 361 TCTTGGCAACCTGAGCGGCTCATCCAGGCAAGAGGCGCTGAGACCTGGGACCTTCA 420  
QY 421 CGGAGTACTCCGCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCT 480  
DB 421 CGGAGTACTCCGCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCTTGGCCCT 480  
QY 481 GCGAGTGAACGCGCAGCCCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCG 540  
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QY 541 AGCAAAATGAGCTCCGCGCTGAAGCCCGCTTGAGACCTCTGAGAGAGCTGTGCGG 600
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QY 781 GAAACCTTAACGACGCACTCCGCGCGGACGTCAGAGGTCTTACATGACCTCTCTGCGCTG 840
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QY 841 GCGATGGACTCACTGCGCTTCAAGATCTAGGGGCTGCGCCCTAGTGTGAGTGGCTGAGG 900
DB 841 GCGATGGACTCACTGCGCTTCAAGATCTAGGGGCTGCGCCCTAGTGTGAGTGGCTGAGG 900
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DB 961 GCTGGGACACAAAAAATTTTTAAAAA 989

RESULT 3
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ID ABK40264 standard; cDNA, 989 BP.
XX
AC ABK40264;
XX
DT 15-JUL-2002 (first entry)
XX
DE cDNA encoding human PRO1558 polypeptide.
XX
KM Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW Leukemia; neuronal disorder; stromal disorder; blastocytic disorder;
KW inflammatory disorder; immune disorder; angiogenic disorder;
XX gene therapy; cyostatic; neuroprotective; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200153486-A1.
XX
PD 26-JUL-2001.
XX
PF 11-FEB-2000; 2000MO-US003565.
XX
PR 08-MAR-1999; 99MO-US005028.
PR 11-MAR-1999; 99US-0123972P.
PR 11-MAR-1999; 99US-0133455P.
PR 02-JUN-1999; 99MO-US012252.
PR 22-JUN-1999; 99US-0140650P.
PR 22-JUN-1999; 99US-0140653P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149395P.
PR 31-AUG-1999; 99US-0151689P.
PR 01-SEP-1999; 99MO-US020111.
PR 15-SEP-1999; 99MO-US021090.
PR 30-NOV-1999; 99MO-US028313.
PR 01-DEC-1999; 99MO-US028301.
PR 01-DEC-1999; 99MO-US028634.
PR 05-JAN-2000; 2000MO-US000219.

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XX (GETH ) GENENTECH INC.
XX Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ,
XX Marsters SA, Pan J, Plichi RM, Roy MA, Smith V, Stone DM,
XX Matarabe CK, Wood WI,
XX WPI; 2002-205567/26.
XX P-PsDB; AA086138.
XX
XX Thirty five nucleic acids encoding PRO polypeptides, useful for treating
XX benign or malignant tumors, leukemias and lymphoid malignancies,
XX inflammatory, angiogenic and immunologic disorders.
XX
XX Claim 50; Fig 21; 302pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
XX polypeptides and the polynucleotide sequences encoding them. The PRO
XX polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
XX treating benign or malignant tumors (e.g. renal, kidney, bladder,
XX breast, etc), leukemias and lymphoid malignancies, other disorders such
XX as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
XX stromal and blastocytic disorders, inflammatory, immune and angiogenic
XX disorders. The polynucleotide sequences are also useful in gene therapy.
XX ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX
XX Sequence 989 BP; 169 A; 335 C; 335 G; 150 T; 0 U; 0 Other;
XX
XX Query Match 100.0%; Score 989; DB 6; Length 989;
XX Best Local Similarity 100.0%; Pred. No. 3.6e-156;
XX Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 61 TCCCGCGGCTCTCTGCGCGCGGCAAGACCCGCGTCCCGGCTCCCGGCGCGCG 120
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DB 421 CGGCGCTACTCGCGCTGCGCGCTGCGCGCTGCGCGCTGCGCGCGCGCGCGCGCGCGCG 480
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PR 28-OCT-1998; 98US-01060232.
 PR 28-OCT-1998; 98US-0106029P.
 PR 28-OCT-1998; 98US-0106030P.
 PR 28-OCT-1998; 98US-0106032P.
 PR 28-OCT-1998; 98US-0106033P.
 PR 28-OCT-1998; 98US-0106178P.
 PR 28-OCT-1998; 98US-0106248P.
 PR 29-OCT-1998; 98US-0106384P.
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 PR 03-NOV-1998; 98US-0106856P.
 PR 03-NOV-1998; 98US-0106902P.
 PR 03-NOV-1998; 98US-0106905P.
 PR 03-NOV-1998; 98US-0106919P.
 PR 03-NOV-1998; 98US-0106932P.
 PR 03-NOV-1998; 98US-0106934P.
 PR 10-NOV-1998; 98US-0107783P.
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 PR 17-NOV-1998; 98US-0108801P.
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 PR 18-NOV-1998; 98US-0108852P.
 PR 18-NOV-1998; 98US-0108858P.
 PR 18-NOV-1998; 98US-0108904P.
 PR 22-DEC-1998; 98US-0113286P.
 PR 30-DEC-1998; 98US-0114223P.
 PR 05-APR-1999; 99WO-US000106.
 PR 16-APR-1999; 99US-0129674P.
 PR 23-JUN-1999; 99US-0141037P.
 PR 20-JUL-1999; 99US-0144758P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 01-SEP-1999; 99WO-US020111.
 PR 15-SEP-1999; 99WO-US021194.
 PR 29-OCT-1999; 99US-0162506P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 16-DEC-1999; 99WO-US030095.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023338.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 10-NOV-2000; 2000WO-US030873.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US006566.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 04-SEP-2001; 2001US-00946374.
 PA (GENE) GENENTECH INC.
 XX

PI Baker KP, Botstein D, Desnovers L, Baton DL, Ferrara N, Fong S,
 PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
 PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
 PI Williams PM, Wood WI;
 XX WPI; 2003-585293/55.
 DR P-PsDB; ABO33667.
 XX
 PT Novel isolated PRO polypeptides e.g. PRO1130, PRO1275, PRO1418, PRO1555,
 PT PRO1787 that modulate glucose or free fatty acid uptake by skeletal
 PT muscle cells, and are useful for treating diabetes, hyper- or hypo-
 Query Match 100.0%; Score 989; DB 8; Length 989;
 Best Local Similarity 100.0%; Pred. No. 3,6e-156;
 Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 QY 121 GCTGCGCCCTGCGCTCAAGCGCGACTGCGCGCGCGCTTGGCACTGCGCTCTTCTGCGGA 180
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 QY 781 GAACTTAAGCAAGCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 840
 DB 781 GAACTTAAGCAAGCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG 840
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PR 17-NOV-1998; 98US-0108801P.
PR 17-NOV-1998; 98US-0108802P.
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PR 17-NOV-1998; 98US-0108807P.
PR 17-NOV-1998; 98US-0108867P.
PR 17-NOV-1998; 98US-0108925P.
PR 18-NOV-1998; 98US-0108848P.
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PR 18-NOV-1998; 98US-0108850P.
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PR 05-JAN-1999; 99WO-US000106.
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PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 01-SEP-1999; 99WO-US020111.
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PR 03-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
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PR 18-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014841.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023528.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 04-SEP-2001; 2001WO-US0246374.
XX
XX (GETH) GENENTECH INC.
XX
XX Baker KP, Bolstein D, Desnoyers L, Eaton DI, Ferrara N, Fong S,
XX Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
XX Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
XX Williams PM, Wood WI;
XX WPI, 2003-492259/46.
XX P-PSDB; ABO44520.
XX
XX Novel secreted and transmembrane polypeptides and polynucleotides
XX encoding them useful for treating various cardiac insufficiency
XX disorders, bone and/or cartilage disorders such as sports injuries and
XX arthritis.

Query Match 100.0%; Score 989; DB 8; Length 989;
Best Local Similarity 100.0%; Pred. No. 3, 6e-156; Indels 0; Gaps 0;
Matches 989; Conservative 0; Mismatches 0;

QY 1 GCAGGCGCGAGTCCGAGACTCTGTCCAGAGACTTCAAGCTCAAGTACCTGTCACTGCC 60
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DB 961 GCTGGAGACAAAAAATTTAAAAA 989

RESULT 6
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ID ACD68104 standard; cDNA; 989 BP.

AC ACD68104;
 XX 17-SEP-2003 (first entry)
 XX Novel human secreted and transmembrane protein PRO1558 cDNA.
 DE Human; secreted and transmembrane protein; PRO; gene therapy; vaccine;
 KW tissue typing; chromosome identification; vaccine; gene; ss.
 XX Homo sapiens.
 XX US2003073129-A1.
 XX 17-APR-2003.
 PD 04-SEP-2001; 2001US-00946374.
 PF 01-SEP-1998; 98US-0098716P.
 XX 01-SEP-1998; 98US-0098723P.
 ER 01-SEP-1998; 98US-0098749P.
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PR 01-OCT-1998; 98US-0102684P.
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PR 05-JAN-1999; 99MO-US000106.
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PR 15-MAR-2000; 2000MO-US006884.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.

XX Baker KP, Botstein D, Desnuyers L, Eaton DL, Ferrara N, Fong S;
PI Gan W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AB, Hillan KJ,
P1 Pao Y, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
PI Williams PM, Wood WI;
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DR MPI: 2003-555602/52.
DR P-PDSB; ADCl8175.
XX

(GETH) GENENTECH INC.

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The invention relates to human PRO polypeptides and the polynucleotides encoding them. The sequences are useful in the preparation of a PRO polypeptide. The sequences are useful for treating a condition responsive to a PRO polypeptide. The sequences are useful in a number of functional biological assays, as molecular weight markers for protein electrophoresis and as therapeutic agents e.g. vaccines.

Claim 2; SEQ ID NO 305; 555pp; English.

Query Match	100.0%;	Score 989;	DB 9;	length 989;
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Matches 989;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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QY	61 TCCGCGCGCTCTCTGCGCGGCGCATGAGCCAGCGGTGCCCGGCTCTCGGTGCGCGCG	120
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QY	181 GGGGCTGCCCGCCATGCGAGGCGCGCGAGACATGTGCTCTTCCCGCCAGAGACAGCC	240
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QY	241 GCTGTGAGCAGATCTTCTTGAGCGCTCCATGTCGGGAGACCCCGGCTGTGGAGGCTGA	300
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QY	301 GCGTGTGACCTCGAGACAGCGCGAGGGGGAATTCTATATGACTGCGAGCAGGCCAGC	360
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QY	361 TCTTGGCAAACCTTGCGCGGCTCATTCAGAGCCAGAGGCGCTGGAACCTTGGCACTTTCA	420
Db	361 TCTTGGCAAACCTTGCGCGGCTCATTCAGAGCCAGAGGCGCTGGAACCTTGGCACTTTCA	420
QY	421 CGGGCTACTCCGCGCTGAGCGCTGAGCCCTGAGGCTCGCGCGGAGCGGGGCGGTGTGACT	480
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Qy	481	GCGAGGTGGACCCGCAAGCCCCCGAGCTGGAGACGACCCTGTGAGGCAAGCCGAGGCGG	5.40
Db	481	GCGAGGTGGACCCGCAAGCCCCCGAGAGCTGGAGACGAGCCCTGTGTGAGGCAAGCCGAGGCGG	5.40
Qy	541	AGCACAAGATGCACTCTCCGAGCTGAAGCCCGCCCTTGGAGACCCTGGACGAGCTGTGGCCG	6.00
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Qy	601	CGGCGCAGAGCCGCGACCTTCGACGCGGCGCGTGGTGGATGCGGACCAAGAGAACTGGCTCCG	6.60
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Qy	661	CCTACTACAGAGCGCTGCGCTGCGAGCTGCTGCACCCCGAGGAGATCTCTGCGCGTCTCTAGAG	7.20
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Qy	721	TCTGTGGGCGCGGAAAGGTGTCGCAACTCCGAAAGGGGAGCGTGGCGGCGCAGGTGTGTC	7.80
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Qy	781	GAAACTTAACGACGCACTCCGCGCGGAGCGTCAAGAGGTCTTACATAGCGCTTCTGCGCCCTG	8.40
Db	781	GAAACTTAACGACGCACTCCGCGCGGAGCGTCAAGAGGTCTTACATAGCGCTTCTGCGCCCTG	8.40
Qy	841	GCGATGGAATCACTCTTGGGCTTCAAGATCTAGGGCTGGCCCTGTAGTGGGCTCGAG	9.00
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Qy	901	GAGGGTTGGCTTGGGAACCCCAAGAAATTGACCCCTGAGTTTAAATTGCAAAATTAAGTGG	9.60
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DB	Human cDNA encoding secreted/transmembrane protein PRO1558.	
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KW	Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;	
KW	immune response; cardiac insufficiency disorder; calcium flux;	
KW	unilobular vein endothelial cell; bone disorder; cartilage disorder;	
KW	arthritis; wound healing; diabetes; skeletal muscle cells; obesity;	
KW	Berger disease; nephropathy; Schönlein-Henoch purpura; coeliac disease;	
KW	dermatitis; herpetiformis; Crohn's disease; thalassemia.	
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PN	US2003099625-A1.	
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PD	29-MAY-2003.	
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PF	12-DEC-2001; 2001US-00015386.	
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PR 03-NOV-1998; 98US-0106856P.
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PR 26-JUL-1999; 99US-0145698P.
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PR 16-DEC-1999; 99WO-US030095.
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PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
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PR 02-JUN-2000; 2000WO-US015264.
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PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.

09-JUL-2001; 2001WO-US021735.
PR 04-SEP-2001; 2001US-00946374.
XX
XX (GERTH) GENENTECH INC.
XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;
PI Gao W, Goddard A, Goddard RJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Pan J, Peoni NF, Roy MA, Smith V, Stewart TA, Thomas D, Watanabe CK;
PI Williams PM, Wood WI;
XX WPI; 2003-874602/81.
DR P-FSDB; ADD70821.
XX
XX Novel isolated PRO polypeptides e.g., PRO1130, PRO1275, PRO1418, PRO1555,
PT PRO1787 affect glucose or free fatty acid (FFA) uptake by skeletal muscle
PT cells and are useful for treating diabetes or hyper- or hypo-insulinemia.
XX
XX Claim 2; SEQ ID NO 305; 553bp; English.
XX
XX The invention relates to an isolated PRO polypeptide (secreted or

Query Match 100.0%; Score 989; DB 9; Length 989;
Best Local Similarity 100.0%; Pred. No. 3.6e-156; Mismatches 0; Gaps 0;
Matches 989; Conservative 0; Indels 0; Gaps 0;

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XX 15-JAN-2004 (first entry)
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Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
Immune response; cardiac insufficiency disorder; calcium flux;
KM umbilical vein endothelial cell; bone disorder; cartilage disorder;
KM arthritis; wound healing; diabetes; skeletal muscle cells; obesity;
KM Berger disease; nephropathy; Schönlein-Henoch purpura; coeliac disease;
dermatitis; herpeticiformis; Crohn's disease; thalassemia.

OS Homo sapiens.
XX
XX US2003083462-A1.
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PD 01-MAY-2003.
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PF 10-DEC-2001; 2001US-00013913.
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XX 05-JAN-1999; 99WO-US000106.
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PD 20-MAR-2003.
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 PR 04-SEP-2001; 2001US-00946374.
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 (SETH) GENENTECH INC.
 PA Baker KP, Bolstein D, Desnoyers J, Eaton DI, Ferrara N, Fong S,
 PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
 PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
 PI Williams PM, Wood WI;
 XX WPI; 2003-708344/67.
 DR P-PSDB; ADD70344.
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 PT Novel isolated PRO polypeptide useful for tissue typing, modulating
 PT biological activity of cell, as molecular weight markers in protein
 PT electrophoresis, for treating arthritis, tumor.
 PS Claim 2; SEQ ID NO 305; 549pp; English.
 XX
 CC The invention relates to an isolated PRO polypeptide (secreted or
 Query Match 100.0%; Score 989; DB 9; Length 989;
 Best Local Similarity 100.0%; Pred. No. 3.6e-156;
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 KW Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
 KW immune response; cardiac insufficiency disorder; calcium flux;
 KW umbilical vein endothelial cell; bone disorder; cartilage disorder;
 KW arthritis; wound healing; diabetes; skeletal muscle cells; obesity;
 KW Berger disease; nephropathy; Schönlein-Henoch purpura; celliac disease;
 KW dermatitis; herpeticiformis; Crohn's disease; thalassemia.
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 OS Homo sapiens.
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 PN US2003096955-A1.
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 PD 22-MAY-2003.
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 PF 07-DEC-2001; 2001US-00012755.
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PR 02-DEC-1999; 99US-0162855P.
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PR 05-JAN-2000; 2000US-0000219.
PR 06-JAN-2000; 2000US-0000376.
PR 11-FEB-2000; 2000US-0003565.
PR 18-FEB-2000; 2000US-0004342.
PR 24-FEB-2000; 2000US-0005004.
PR 02-MAR-2000; 2000US-0005841.
PR 15-MAR-2000; 2000US-0005884.
PR 17-MAY-2000; 2000US-001705.
PR 22-MAY-2000; 2000US-0014042.
PR 30-MAY-2000; 2000US-0014941.
PR 02-JUN-2000; 2000US-0015264.
PR 23-AUG-2000; 2000US-0023522.
PR 24-AUG-2000; 2000US-0023528.
PR 08-NOV-2000; 2000US-0030952.
PR 10-NOV-2000; 2000US-0030873.
PR 01-DEC-2000; 2000US-0032678.
PR 28-FEB-2001; 2001US-0006520.
PR 01-MAR-2001; 2001US-0006666.
PR 01-JUN-2001; 2001US-0017800.
PR 20-JUN-2001; 2001US-0019692.
PR 29-JUN-2001; 2001US-0021065.
PR 03-SEP-2001; 2001US-0021735.
PR 04-SEP-2001; 2001US-00946374.

XX (GETH) GENENTECH INC.
 PA Baker KP, Botstein D, Desnoyers L, Eaton DU, Ferrara N, Fong S,
 XX Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
 PI Pan J, Piconi NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
 PI Williams FM, Wood WI;
 XX WPI; 2003-787000/74.
 DR P-PSDB; ADD38465.
 XX
 PT Novel isolated PRO polypeptide, useful for treating cancerous tumors,
 PT cardiac insufficiency disorders, wound healing, diabetes mellitus,
 PT thalassemias.
 PS Claim 2; SEQ ID NO 305; 556bp; English.
 CC The invention relates to an isolated PRO polypeptide (secreted or
 transmembrane protein) having at least 80% amino acid sequence identity

Query Match 100.0%; Score 989; DB 9; Length 989;
 Best Local Similarity 100.0%; Pred. No. 3; ee-156;
 Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGGCCCGGAGTCCGAGACCTGTCGAGAGCTCCAGCTCAGCTGACCTGTCAGTGGC 60
 DB 1 GGGGGCCCGGAGTCCGAGACCTGTCGAGAGCTCCAGAGCTCAGCTGACCTGTCAGTGGC 60
 QY 61 TCCGCGCCCTTCCTGCGCCGCGCATGACCCAGCCGCTGCTCCGTCGCGCGCG 120
 DB 61 TCCGCGCCCTTCCTGCGCCGCGCATGACCCAGCCGCTGCTCCGTCGCGCGCG 120
 QY 121 CGCTGCGCCCTGCGCTCAGCGCGAGCGCGCGCGCTTCGCGAGCTGCTTCCTGCGAG 180
 DB 121 CGCTGCGCCCTGCGCTCAGCGCGAGCGCGCGCGCTTCGCGAGCTGCTTCCTGCGAG 180
 QY 181 GCGCGTGCCTCCCATGCGAGCGCGCGAGAGAGAGTGCCTGCTTCCTCCCGAGAGACCC 240
 DB 181 GCGCGTGCCTCCCATGCGAGCGCGCGAGAGAGAGTGCCTGCTTCCTCCCGAGAGACCC 240
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 DB 241 GCGTGTGCGAGTATTTCTGAGCGCGCTCCAGCGCGAGAGACCGCGCGCTCGAGAGCTGA 300
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DB 721 TCTGTGTGCGCGAGAGAGTGTGCAACTTCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
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 DB 781 GAAAGCTTAAAGAGAGAGATCCGCGCGAGAGAGTGAAGGATCTACATCAAGCTCTGCGCCCTGG 840
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 DB 841 GCGATGAGTCACTCTGCGCTTCAAGATCTAGAGGCTGCGCGCTGAGTGAAGTGAAGTGAAG 900
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 DB 901 GAGGCTGTGCTGAG 960
 QY 961 GCTGGGACACAAAAA 989
 DB 961 GCTGGGACACAAAAA 989

RESULT 12

ADD39420
 ID ADD39420 standard; cDNA; 989 BP.

XX ADD39420;
 DT 15-JAN-2004 (first entry)
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DE Human cDNA encoding secreted/transmembrane protein PRO1558.

XX Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
 KM immune response; cardiac insufficiency disorder; calcium flux;
 KM umbilical vein endothelial cell; bone disorder; cartilage disorder;
 KM arthritis; wound healing; diabetes; skeletal muscle cells; obesity;
 KM Berger disease; nephropathy; Schonlein-Henoch purpura; coeliac disease;
 KM dermatitis; herpeticiformis; Cronh's disease; thalassemia.

OS Homo sapiens.

XX US2003096954-A1.

XX PD 22-MAY-2003.

XX PF 07-DEC-2001; 2001US-00011671.

XX 01-SEP-1998; 98US-0098716F.
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PR 01-DEC-2000; 2000US-0503278P.
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PR 01-JUN-2001; 2001US-0501780P.
PR 20-JUN-2001; 2001US-0501969P.
PR 29-JUN-2001; 2001US-0502106P.
PR 09-JUL-2001; 2001US-0502173P.
PR 04-SEP-2001; 2001US-00946374P.

(GETH) GENENTECH INC.
XX
XX Baker KP, Botstein D, Desnovers L, Eaton DL, Ferrara N, Fong S;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Pan T, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK;
PI Williams PM, Wood WI;
XX
XX WPI; 2003-786999/74.
DR P-PSDB; ADD39421.
XX
XX Novel isolated PRO polypeptide useful for tissue typing, modulating
PT biological activity of cell, as molecular weight markers in protein
PT electrophoresis, for treating arthritis, tumor.
XX

PS Claim 2; SEQ ID NO 305; 550bp; English.

XX The invention relates to an isolated PRO polypeptide (secreted or

Query Match 100.0%; Score 989; DB 9; Length 989;

Best Local Similarity 100.0%; Pred. No. 3, 6e-156;

Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGGGCCCGGAGTCCGAGACCTGTCGAGAGCTCCAGCTCAGCTGACCTGTCACCTGCC 60
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 DB 121 CGCTGCGCGCTGAGCTCAGCG 180
 QY 181 GCGCGTGCCTCCCATGCGGAGCG 240
 DB 181 GCGCGTGCCTCCCATGCGGAGCG 240
 QY 241 GCGTGTGAGTATCTTCTGAGCGCGCTCCATGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 300
 DB 241 GCGTGTGAGTATCTTCTGAGCGCGCTCCATGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 300
 QY 301 GCGTGTGAGTATCTTCTGAGCGCGCTCCATGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 360
 DB 301 GCGTGTGAGTATCTTCTGAGCGCGCTCCATGCGGAGCGCGCGCGCGCGCGCGCGCGCGCG 360
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 DB 421 CGGCGTACTCCG 480
 QY 481 GCGAGTGTGAGCG 540
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 DB 781 GAAACCTTAAAGAGAGTGTCTGCACTCCGAAAGGAGAGTGTGCGCGCGCGCGCGCGCGCGCG 840
 QY 841 GCGATGAGTCACTTGGCTTCAAGATCTGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 900
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DB 961 GCTGGAGACAAAAA 989

RESULT 13

ID ADD38943 standard; cDNA; 989 BP.

ADD38943;

15-JAN-2004 (first entry)

Human cDNA encoding secreted/transmembrane protein PRO1556.

Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
 Immune response; cardiac insufficiency disorder; calcium flux;
 umbilical vein endothelial cell; bone disorder; cartilage disorder;
 arthritis; wound healing; diabetes; skeletal muscle cells; obesity;
 Berger disease; nephropathy; Schönlein-Henoch purpura; coeliac disease;
 dermatitis; herpeticiformis; Crohn's disease; thalassemia.

Homo sapiens.

US2003092061-A1.

15-MAY-2003.

06-DEC-2001; 2001US-00007194.

01-SEP-1998; 98US-0098716P.

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10-SEP-1998; 98US-0099741P.

10-SEP-1998; 98US-0099754P.

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XX
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XX (GENENTECH INC.
XX Baker KP, Botstein D, Desnayers L, Eaton DL, Ferrara N, Fong S,
XX Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AU, Hillan KJ,
XX Pan Y, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
XX Williams PW, Wood WI,
XX
XX WPI: 2003-765477/72.
XX P-PSDB; ADD38944.
XX
XX New isolated PRO polypeptide such as PRO1560, PRO444, PRO1018, PRO1773,
XX PRO1244, PRO1246, useful for treating cancerous tumors, cardiac
XX insufficiency disorders, wound healing, Crohn's disease, celiac disease.
XX
XX Claim 2; SEQ ID NO 305; 555bp; English.
XX
XX The invention relates to an isolated PRO polypeptide (secreted or
XX
CC Query Match 100.0%; Score 989; DB 9; Length 989;
Best Local Similarity 100.0%; Pred. No. 3.6e-156;
Matches 989; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 TCCCGCCGCTCTCTGCTCCGCGCCATGACCCAGCCGCGTCCCGGCTCTCCGTCGCCGCG 120
DB 61 TCCCGCCGCTCTCTGCTCCGCGCCATGACCCAGCCGCGTCCCGGCTCTCCGTCGCCGCG 120
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Db 181 GCGCGGTGCCCCCATGGGAGGCGCGGAGAGCACTGGCTGTTCCCGCCAGAGACAGCC 240
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RESULT 14

ADD40374
ID ADD40374 standard; cDNA, 989 BP.

XX ADD40374;

XX 15-JAN-2004 (first entry)

DE Human cDNA encoding secreted/transmembrane protein PRO1558.

XX Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;

KW immune response; cardiac insufficiency disorder; calcium flux;

KM umbilical vein endothelial cell; bone disorder; cartilage disorder;
KW arthritis; wound healing; diabetes; skeletal muscle cells; obesity;
KW Berger disease; nephropathy; Schonlein-Henoch purpura; coeliac disease;
KW dermatitis; herpiformis; Crohn's disease; thalassemia.
OS Homo sapiens.
XX US2003082627-A1.
XX 01-MAY-2003.
XX 06-DEC-2001; 2001US-00006117.
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XX			
XX	(GENTH) GENENTECH INC.		
XX			
XX	Baker KP, Botestein D, Desnoyers L, Baton DL, Ferrara N, Fong S,		
PI	Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,		
PI	Pan J, Poon NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,		
PI	Williams PM, Wood WI,		
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XX	WP1; 2003-755104/71.		
DR	P-PSDB; ADD40375.		
DR			
PT	New isolated PRO polypeptides such as PRO1560, PRO444, PRO1018, PRO1773,		
PT	PRO1244, PRO1246, are useful for treating cancerous tumors and cardiac		
PT	inefficiency disorders.		
PI			
XX			
XX	Claim 2; SEQ ID NO 305; 550pp; English.		
PS			
XX			
CC	The invention relates to an isolated PRO polypeptide (secreted or		
	Query Match	100.0%; Score 989; DB 9; Length 989;	
	Best Local Similarity	100.0%; Pred. NO.3.6e-156; Mismatches 0; Indels 0; Gaps 0;	
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QY	61	TCCCGCGCCCTCTCTGCGCGCGCCGACATGACCCAGCGCGTGCCTCCGCTGCCGCGCG	120
DB	61	TCCCGCGCCCTCTCTGCGCGCGCCGACATGACCCAGCGCGTGCCTCCGCTGCCGCGCG	120
QY	121	CGCTGAGCCCTGAGGCTCAGCGCCGACCTGAGCGCGCTTTCGCCACTGAGCTCTTCTCTGAGGA	180
DB	121	CGCTGAGCCCTGAGGCTCAGCGCCGACCTGAGCGCGCTTTCGCCACTGAGCTCTTCTCTGAGGA	180
QY	181	GCGCGTGCCTCCCAATGCGGAGAGCGCGGAGAGCACTGCTGCTCTTCCCGGAGAGCAAGC	240
DB	181	GCGCGTGCCTCCCAATGCGGAGAGCGCGGAGAGCACTGCTGCTCTTCCCGGAGAGCAAGC	240
QY	241	GCGTGTGCACTATCTTCTGAGCGCGCTCCATGCGGAGAGCAAGCCGCGCTGTGGAAGCTGA	300
DB	241	GCGTGTGCACTATCTTCTGAGCGCGCTCCATGCGGAGAGCAAGCCGCGCTGTGGAAGCTGA	300
QY	301	GCGTGTGCACTATCTTCTGAGCGCGCGGAGAGATTTATATATACCTTGCAGAGAGCGCCAGC	360
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PR	28-FEB-2001;	2001WO-US006520.	
PR	01-MAR-2001;	2001WO-US006666.	
PR	01-JUN-2001;	2001WO-US017800.	
PR	20-JUN-2001;	2001WO-US019692.	
PR	29-JUN-2001;	2001WO-US021066.	
PR	09-JUL-2001;	2001WO-US021735.	
PR	04-SEP-2001;	2001US-00946374.	
XX			
PA	(GETH) GENENTECH INC.		
XX			
PI	Baker KP, Boctstein D, Deenoyers L, Eaton DL, Ferrara N, Fong S;		
PI	Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AU, Hillan KJ;		
PI	Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK;		
PI	Williams PM, Wood WI;		
XX			
DR	MP1; 2003-708395/67.		
XX	P-PSDB; ADE50596.		
PT	Novel secreted and transmembrane PRO polypeptides useful in the		
PT	preparation of a medicament for treating a condition responsive to PRO		
PT	polypeptide and as therapeutic agents e.g. vaccines.		
PS	Claim 2; SEQ ID NO 305; 555bp; English.		
XX			
CC	The invention relates to an isolated PRO polypeptide (secreted or		
	Query Match	100.0%; Score 989; DB 9; Length 989;	
	Best Local Similarity	100.0%; Pred. No.3.ee-156; Indels 0; Gaps 0	
	Matches 989; Conservative	100.0%; 0; Mismatches 0; Indels 0; Gaps 0	
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DB	1 GCGGGCCCGCAGTCCGAGACTGTCCGAGAGCTCACTACGCTGACCTGTCTCTGACC	60	
QY	61 TCCGCCCGCTCTTCGCCCCCGCCCAATGACCCAGCCGGTCCCGGTCCTCGGCGCCGCG	120	
DB	61 TCCGCCCGCTCTTCGCCCCCGCCCAATGACCCAGCCGGTCCCGGTCCTCGGCGCCGCG	120	
QY	121 CGCTGGCCCTGAGGCTCAAGCCGACACTGAGCGCGCCCTTGGCACTGGCTCTTCTGAGGA	180	
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QY	181 GCGCGTGGCCCCCATGGAGAGAGCGCGCGAGAGAGAGTGTGCTTCCGCCAGAGACAGCC	240	
DB	181 GCGCGTGGCCCCCATGGAGAGAGCGCGCGAGAGAGAGTGTGCTTCCGCCAGAGACAGCC	240	
QY	241 GCGTGGCAGATATCTTCTGAGCCGCTCCATGCGGAGACACCCGCGCTGCGAAGCTTGA	300	
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DB	301 GCGTGGTACCTGTGAGAGAGCGGAGGAGGAGATTCTATATATGACTGTGAGAGAGGCCAGC	360	
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DB	361 TCTTGGCCCACTGGCGCGGCTCATCGAGGCCAAGAGGCGCTGACCTTGGCACTTCA	420	
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DB	421 CGGGGTACCTCGGCGCCCTGAGCGCTGAGCGCTGAGCGCTGAGCGCGCTGAGCGCT	480	
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DB	481 GCGAGGTGAGCGCGCAGCCCGCCGAGCTTGGAGCGCGCCCTTGGAGCGCGCTGAGCGCG	540	
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QY 661 CCTACTAGAGAGCGTGGCTGTGACGTGCTGGGACCCGGAGGCATCTCGCCGTCTCAAG 720
Db 661 CCTACTAGAGAGCGTGGCTGTGACGTGCTGGGACCCGGAGGCATCTCGCCGTCTCAAG 720
QY 721 TCCTGTGGCGGGGAGAGGTGCTGCAACCTCCGAAAGGGGACGTGGCGGCGGAGTGTGC 780
Db 721 TCCTGTGGCGGGGAGAGGTGCTGCAACCTCCGAAAGGGGAGTGTGC 780
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Db 961 GCTGGGACACAAAAAATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 989
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Search completed: April 10, 2004, 14:16:08
Job time : 477 secs

Thu Apr 15 09:23:56 2004

us-10-017-407a-305.rpt

Page 1

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 10, 2004, 13:51:29 ; Search time 3083 Seconds
(without alignments)
9579.532 Million cell updates/sec

Title: US-10-017-407a-305

Perfect score: 989
Sequence: 1 gcgggccccgagtcgaga.....caaaaaaaaaaaaaaaaaa 989

Scoring table: IDENTITY NUC
Gapop 10_0, Gapext 1.0

Searched: 27513289 segs, 1431090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seg length: 0

Maximum DB seg length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_estlm:*
3: em_estln:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vit:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	797.4	80.6	889	12 BM451059
2	762.6	77.1	14 CB852030	UI-CF-FNO
3	743	75.1	12 BM051236	BM051236 603634191
4	736	74.4	14 CA777547	CA777547 1p21g07.x

5	721	72.9	1006	10 BF663323	BF663323 602144463
6	716	72.4	921	10 BF664198	BF664198 602145812
7	707.2	71.5	714	12 BM976177	BM976177 UI-CF-EN1
8	699.8	70.8	750	14 CB852718	CB852718 UI-CF-FNO
9	684.4	69.2	772	10 BE796570	BE796570 601592247
10	669.8	67.7	779	10 BF663695	BF663695 602145414
11	666.4	67.4	934	13 BQ931589	BQ931589 AGENCOURT
12	630	63.7	1065	13 BQ072503	BQ072503 AGENCOURT
13	625	63.2	625	12 BM768764	BM768764 K-EST0051
14	621	62.8	912	12 BG339399	BG339399 602437508
15	609.2	61.6	2243	11 AK054334	AK054334 Mus muscu
16	607.6	61.4	919	11 AK007659	AK007659 Mus muscu
17	603.4	61.0	606	10 AM157329	AM157329 a994f01.x
18	587.8	59.4	910	13 BY707694	BY707694 BY707694
19	585.8	59.2	589	9 A1692198	A1692198 wd37h07.x
20	585.6	59.2	1122	12 BG339315	BG339315 602437607
21	580	58.6	580	12 BM769685	BM769685 K-EST0052
22	579	58.5	998	13 BQ918468	BQ918468 AGENCOURT
23	578.4	58.5	581	9 A1929359	A1929359 a959e03.y
24	578.4	58.5	691	10 BE278279	BE278279 601157608
25	574.6	58.1	904	14 CB194568	CB194568 AGENCOURT
26	564.4	57.1	582	10 AM157252	AM157252 a93e01.x
27	562.8	56.9	886	14 CB181160	CB181160 AGENCOURT
28	557.2	56.3	977	13 BU841828	BU841828 AGENCOURT
29	549.2	55.5	578	9 AM003514	AM003514 wq66g10.x
30	548.6	55.5	620	9 AA584408	AA584408 m81b03.s
31	542.8	54.9	909	14 CB194405	CB194405 AGENCOURT
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33	540.2	54.6	639	12 BG910899	BG910899 602812540
34	538.4	54.4	566	10 AM163525	AM163525 a95h04.y
35	538.4	54.4	999	11 BC019467	BC019467 Mus muscu
36	535	54.1	564	10 AM163385	AM163385 a94f01.y
37	533.4	53.9	790	12 B1411825	B1411825 602966437
38	522.6	52.8	546	10 AM157459	AM157459 a95h04.x
39	522	52.8	1105	13 BX339546	BX339546 BX339546
40	521.2	52.7	714	14 BF341318	BF341318 602011260
41	515.6	52.1	575	9 A1810740	A1810740 tu04a11.x
42	511.8	51.7	516	12 BG285119	BG285119 602409396
43	509.8	51.5	710	13 BQ746381	BQ746381 UI-M-ERO
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ALIGNMENTS

RESULT 1
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DEFINITION 5', mRNA sequence.
ACCESSION BM451059
VERSION BM451059.1 GI:18500099
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 889)
NIH-MGC http://mgs.nci.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIM)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LIM at:
http://image.llnl.gov
Plate: LIM12121 row: d column: 08
High quality sequence stop: 665.

FEATURES
source

Location/Qualifiers
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/clone="IMAGE:549499"
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/clone_lib="NIH MGC 67"
/note="Organ: eye; Vector: pCMV-Sport6; Site 1: NotI;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.75 kb. Library constructed by Life
Technologies."

ORIGIN

Query Match 80.6%; Score 797.4; DB 12; Length 889;
Best Local Similarity 99.5%; Pred. No. 5.9e-89;
Matches 821; Conservative 0; Mismatches 1; Indels 3; Gaps 2;

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QY 132 GGGTCAGCGCGACATGGGGGCGCGCTTGGCCACTGAGCCCTTCTGGGGAAGCGGTGCC 191
DB 61 GGGTCAGCGCGACATGGGGGCGCGCTTGGCCACTGAGCCCTTCTGGGGAAGCGGTGCC 120
QY 192 CCATGGAGAGCCGCGAGAGCAAGTGCCTGCTTCCCGCGAGAGACCCGCTGTGGAG 251
DB 121 CCATGGAGAGCCGCGAGAGCAAGTGCCTGCTTCCCGCGAGAGACCCGCTGTGGAG 180
QY 252 TATCTTGTACCCGCTCCATGCGGAGAGACCGCGCGCTGGAGAGCTGAGGCTGTACC 311
DB 181 TATCTTGTACCCGCTCCATGCGGAGAGACCGCGCGCTGGAGAGCTGAGGCTGTACC 240
QY 312 CTGAGAGAGCCGAGGGGAGATTCTATGATGACTGTGCGAGAGGCCACTTGTGGCAAC 371
DB 241 CTGAGAGAGCCGAGGGGAGATTCTATGATGACTGTGCGAGAGGCCACTTGTGGCAAC 300
QY 372 CTGGGCGCGCTCATCAGAGCCAGAGGCGCTTGAACCTGGGCACTTCAAGGGCTACTCC 431
DB 301 CTGGGCGCGCTCATCAGAGCCAGAGGCGCTTGAACCTGGGCACTTCAAGGGCTACTCC 360
QY 432 GCGCTGAGCGCTGAGCCCTGAGCGCTGCGCGAGACCGGCGCTGTGACCTTGGAGTGGAC 491
DB 361 GCGCTGAGCGCTGAGCCCTGAGCGCTGCGCGAGACCGGCGCTGTGACCTTGGAGTGGAC 420
QY 492 GCGCAGCCCGCGAGAGCTGAGAGCGGCTGCTGAGAGGAGCGCGAGAGCCAGCAAGATC 551
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QY 732 GGGAGAGTGTCTCAACCTCCGAAAGGAGCGTGGCGCGAGTGTGTCCGAAACCTTAAC 791
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791 ACCCTTGGGCGCTTCAAGATCTAAGAGGCTTGGCGCCCTCAGTGAAGTGG 825

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LOCUS UI-CF-FN0-aes-j-02-0-UI.s1 UI-CF-FN0 Homo sapiens cDNA clone
DEFINITION
UI-CF-FN0-aes-j-02-0-UI 3', mRNA sequence.
ACCESSION
CB852030
VERSION
CB852030.1 GI:30046884
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
TITLE
Normalization and subtraction: two approaches to facilitate gene
discovery
Genome Res. 6 (9), 791-806 (1996)

JOURNAL
MEDLINE
PUBMED
COMMENT
Contact: McCray, PB
McCray Lab
University of Iowa
2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccray@iowa.edu

Tissue Procurement: Dr. M. J. Welsh, University of Iowa
CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com).
Seq primer: M13 FORWARD
POLYA=Yes.

FEATURES
source

Location/Qualifiers
1..771

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/issue_type="Human Lung Epithelial cells"
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/clone_lib="UI-CF-FN0"
/note="Organ: Lung; Vector: pT73-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-FN0 is a subtracted cDNA library derived from two
normalized Human Lung epithelial cell libraries (EN1 and
DUI). The library was subtracted according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. For additional information, contact:
bento-soares@uiowa.edu
TAG_SEQ=None found"

ORIGIN

Query Match 77.1%; Score 762.6; DB 14; Length 771;
Best Local Similarity 99.5%; Pred. No. 1.2e-84;
Matches 765; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 771 GCTTCCCGCGAGAGAGCGCGCTGTGAGATCTTCTGAGCCGCTCCATGCGGAGAGA 712
QY 281 CCCGGGCTGCGAGAGCTTGAAGCTGTGACCTTGAAGAGCGCGCGAGGGGAGATTATGAT 340
DB 711 CCCGGGCTGCGAGAGCTTGAAGCTGTGACCTTGAAGAGCGCGCGAGGGGAGATTATGAT 652
QY 341 GACCTGAGAGAGAGCGCGAGCTTGTGAGCAACTGGCGAGGCTCATCAGAGCAAGAGGC 400
DB 651 GACCTGAGAGAGAGCGCGAGCTTGTGAGCAACTGGCGAGGCTCATCAGAGCAAGAGGC 592

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QY	401	GCTGGACCTGGGGCACTTTCAAGGGCTACTCGGCTTGCCCTTGAGCCTTGAGCGTGGCCGCG	460
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QY	461	GGACGGGCGCTGTGTGATCCCTGAGGTGGACGCGCAGCTCCCGGAGCTGGACGACCCCT	520
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QY	521	GTGGAGGTAGGGCCGAGGGCGAGGACAAATGACCTCCGAGCTGAAAGCCCGGCTTGAGAGC	580
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QY	581	CCTGGACGAGCTGCTGGCGCGGGCGAGGCGGCACTTTCGACGAGCGCTGTGTGATGC	640
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QY	641	GGACAGGAGAACTGCTCCGCTACTTACAGAGGCTGCTGACGCTGTGCGAACCCCGAGG	700
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QY	701	CATCTTGGCCGTCTCTCAGATCTCTGTGGCGGGGGAAAGTGTGTGCACTTCCGAAAAGGGA	760
Db	291	CATCTTGGCCGTCTCTCAGATCTCTGTGGCGGGGGAAAGTGTGTGCACTTCCGAAAAGGGA	232
QY	761	CGTGGCGGCGCGAGTGTGTGCGAAACCTTAAACGACATCCGACGGGACGTCAAGGTTTA	820
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QY	821	CATCAGCCTTCGACCCTTGAGGAGTGACTGACTTGTGCTTTCAGATCTTAGGGCTGGCC	880
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QY	881	CCTAGTGAAGTGGGCTCGAAGGAGGAGTTGCTTGAGAAACCCACAGAAATTGACCTGAGTTT	940
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QY	941	AAATTGAAAAATTAAGTGGGGCTGGGACACAAAAAATTTTTAAAAA	989
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ACCESSION
EM051236
VERSION
EM051236.1 GI:16780503
KEYWORDS
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 814)
NIH-MGC <http://mgs.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
AUTHORS
TITLE
JOURNAL
COMMENT
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.

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FEATURES
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/clone_lib="NIH_MGC_43"
/notes="Organ: eye; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-RT priming. Directionally
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adaptor: GGCACGAG(G). Library constructed by Ling Hong
in the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH_MGC Library. |"

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ORIGIN	Query Match	75.1%;	Score 743;	DB 12;	Length 814;
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QY	148	GCGCGCGCTTGGCCACGTGCGCTCTTCCGTGGGAGAGCGGTGCCCCCATAGGAGAGCGCGAG	207		
DB	62	GCGCGCGCTTGGCCACGTGCGCTCTTCCGTGGGAGAGCGGTGCCCCCATAGGAGAGCGCGAG	121		
QY	208	GAGAGCAGTGTGCTGCTTCCCCCGAGGACAGCGCGCTGTGACAGTATCTTGTAGCGGCT	267		
DB	122	GAGAGCAGTGTGCTGCTTCCCCCGAGGACAGCGCGCTGTGACAGTATCTTGTAGCGGCT	181		
QY	268	CCATGCGGAGACACCGCGCGCTGGGAAACCTGAGAGCTGCTACCTCTGGAGAGACCGCGAG	327		
DB	182	CCATGCGGAGACACCGCGCGCTGGGAAACCTGAGAGCTGCTACCTCTGGAGAGACCGCGAG	241		
QY	328	GCGATTCTATGATGACTGTGCGAGCAGCGCCAGCTTTGTGCCAACCTGTGCGCGCTCATCC	387		
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QY	388	AGGCCAAGAGAGCGCTGGAAGCTTGGGACCTTTCAAGGGCTACTCCGCGCTTGGCGCTTGGGCC	447		
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DB	352	TGGGCGCTCCCGCGGACCGGCGCGCTGTGATCCTTGAGAGTGGACCGCGAGCGCCCGGAGC	421		
QY	508	TGGGACGCGCCCTGTGAGAGGACGCGCGAGCGCGGAGCACAAATGCACTCCGGCTGAAGC	567		
DB	422	TGGGACGCGCCCTGTGAGAGGACGCGCGAGCGCGGAGCACAAAGTTCACCTCCGCGTGAAGC	481		
QY	568	CGGCTTTGGAAGACCTTGGACGAGCTGTGGGGGGGGGGGCG--GAGGCGGGGACCTTGGAGCT	625		
DB	482	CGGCTTTGGAAGACCTTGGACGAGCTGTGGGGGGGGGGGCG--GAGGCGGGGACCTTGGAGCT	541		
QY	626	GCGCGCTGTGATGCTGCGGACAGAGGAACTGTCCGCGCTTACAGAGCGCTGCTGACG--	684		
DB	542	GCGCGCTGTGATGCTGCGGACAGAGGAACTGTCCGCGCTTACAGAGCGCTGCTGACGCT	601		
QY	685	TGCTGCGACCCGAGAGGACATCTCTCGCGCTCTCTAGAGTCTGTGTGGCGCGGAGAGGTGTGCG	744		
DB	602	TGCTGCGACCCGAGAGGACATCTCTCGCGCTCTCTAGAGTCTGTGTGGCGCGGAGAGGTGTGCG	661		
QY	745	AACCTCCGAAAGGGAGCGTGGCGCGCGCGAGTG--TGTCGCAACCTTAAACGAGC--GCAATCG	802		
DB	662	AACCTCCGAAAGGGAGCGTGGCGCGCGCGAGTGTGTGCGCAACCTTAAACGAGC--GCAATCG	721		
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 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."

ORIGIN

Query Match 72.9%; Score 721; DB 10; Length 1006;
 Best Local Similarity 90.9%; Pred. No. 1.4e-79;
 Matches 835; Conservative 0; Mismatches 75; Indels 9; Gaps 6;

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QY 139 CCGCATGAGGCGCCCTTCCGCACTGAGCTCTTCTGAGGAGGCGGTGCCCCCATGAGC 198
DB 62 CCGCATGAGGCGCCCTTCCGCACTGAGCTCTTCTGAGGAGGCGGTGCCCCCATGAGC 121
QY 199 GAGGCGGAGAGAGAGTGCCTGCTCCCGCCGAGAGACAGCCGCTGAGGAGTATCTTC 258
DB 122 GAGGCGGAGAGAGAGTGCCTGCTCCCGCCGAGAGACAGCCGCTGAGGAGTATCTTC 181
QY 259 TGAAGCGCTCCATGCGGAGAGACCCGCGCTGAGGAGTATCTTCGAGCTGAGCCTGAGC 318
DB 182 TGAAGCGCTCCATGCGGAGAGACCCGCGCTGAGGAGTATCTTCGAGCTGAGCCTGAGC 241
QY 319 AGCGGAGAGGAGATTTATGATGACCTGCGAGAGGCGCCAGCTCTTGGCCCAACTGAGCGC 378
DB 242 AGCGGAGAGGAGATTTATGATGACCTGCGAGAGGCGCCAGCTCTTGGCCCAACTGAGCGC 301
QY 379 GGGCTCATGACCCAGGAGAGGCGCTGAGCCTGAGGAGTATCTTCGAGCTGAGCCTGAGC 438
DB 302 GGGCTCATGACCCAGGAGAGGCGCTGAGCCTGAGGAGTATCTTCGAGCTGAGCCTGAGC 361
QY 439 CCGTGGCGCTGCGCTGCGCCGAGAGCGGCGCTGAGTATCTTCGAGGAGTATCTTCGAGC 498
DB 362 CCGTGGCGCTGCGCTGCGCCGAGAGCGGCGCTGAGTATCTTCGAGGAGTATCTTCGAGC 421
QY 499 CCGCGAGAGTGGAGAGCGCCCTGAGGAGAGCGGCGAGGCGAGGAGTATCTTCGAGCCTGAGC 558
DB 422 CCGCGAGAGTGGAGAGCGCCCTGAGGAGAGCGGCGAGGCGAGGAGTATCTTCGAGCCTGAGC 481
QY 559 GAGCTGAGAGCGGCTTGGAGAGACCTGAGAGCTGAGGCGGCGAGGCGAGGCGAGCCTGAGC 618
DB 482 GAGCTGAGAGCGGCTTGGAGAGACCTGAGAGCTGAGGCGGCGAGGCGAGGCGAGCCTGAGC 541
QY 619 TCGACGTGCGGCTGAGTATGCGGAGAGAGAGTATCTTCGAGGAGGAGGAGCCTGAGC 678
DB 542 TCGACGTGCGGCTGAGTATGCGGAGAGAGAGTATCTTCGAGGAGGAGGAGCCTGAGC 601
QY 679 TCGACGTGCGGAGAGGAGGAGTATCTTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 737
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QY 738 GAGCTGAGAGCTCGGAGAGGAGGAGTATGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 796
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QY 797 CATCGGAGGAGAGGAGGAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 854
DB 722 CATCGGAGGAGAGGAGGAGGAGTATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 781
QY 855 -TTGGCCTTCAAG--ATCTAGAGGCTGGCGCCCTAGTATGAGTGGCTCGAGAGGAGGTTG--C 909

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DB 782 TTGACCTTCAAGAGATCACTTGGTGGCCCTTATGATGAGTGGTCCAGCGGACGCTGGCC 841
QY 910 CTGGAGAACCCAGAGATTTAGACCTTGAATTTAATTCGAAATTAAGTGGGCTGGAGCA 969
DB 842 TCGGAGAACCCCTGAGATTTGGCCCCCGGTTTAAATCCGACTTAATGCTGAGGACACACC 901
QY 970 CAAAAAAAAAAAAAAAAA 988
DB 902 ATAACTAACAAACAAACAA 920

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RESULT 6

BF664198

LOCUS

DEFINITION

BF664198

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

BF664198 921 bp mRNA linear EST 21-DEC-2000
 602145812F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4309298 5',
 mRNA sequence.
 BF664198 BF664198.1 GI:11938093
 EST.
 Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 921)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: sgabbs-remail.nih.gov
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/ILNL at:
 http://image.jnl.gov
 plate: LCM1182 row: h column: 03
 High quality sequence stop: 726.
 Location/Qualifiers
 1..921
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4309298"
 /issue_type="Primary B-cells from tonsils (cell line)"
 /lab_host="DH10B (phage-resistant)"
 /clone_id="NIH_MGC_48"
 /note="Organ: B-cells; Vector: pOTB7; Site: 1: XhoI;
 Site: 2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library."

ORIGIN

Query Match 72.4%; Score 716; DB 10; Length 921;
 Best Local Similarity 97.4%; Pred. No. 5.9e-79;
 Matches 781; Conservative 0; Mismatches 15; Indels 6; Gaps 5;

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QY 79 GGGCCATGACCCAGCGGTGCCCCCGCTCCCGTCCCGCCGCGCTGAGCCCTGGAGCTCAG 138
DB 2 GGGCCATGACCCAGCGGTGCCCCCGCTCCCGTCCCGCCGCGCTGAGCCCTGGAGCTCAG 61
QY 139 CCGCATGAGGCGCCCTTCCGCACTGAGCTCTTCTGAGGAGGCGGTGCCCCCATGAGC 198
DB 62 CCGCATGAGGCGCCCTTCCGCACTGAGCTCTTCTGAGGAGGCGGTGCCCCCATGAGC 121
QY 199 GAGGCGGAGAGAGAGTGCCTGCTCCCGCCGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGG 258

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Db	122	GAGGCGGAGCAAGACAGTCCCTTGCTTCCCGCCGAGGACAGCGCGCTGTGGACAGATCTTC	181
Qy	259	TGAGCGGCTCCATGCGGAGGAGCA CCGGGGCTGCGAAGCGCTGAGGCTCTGACCTGTAGAG	318
Db	182	TGAGCGGCTCCATGCGGAGGAGCA CCGGGGCTGCGAAGCGCTGAGGCTCTGACCTGTAGAG	241
Qy	319	AGCGGAGGAGGAGTTCTTATGATGACCTTGAGCAGAGCCGACCTTTTGACCAACTGAGCCG	378
Db	242	AGCGGAGGAGGAGTTCTTATGATGACCTTGAGCAGAGCCGACCTTTTGACCAACTGAGCCG	301
Qy	379	GCGTCATCCAGGAGCAAGAGGAGGCTGAGACTGAGGACCTTACGCGGCTACTCCGAGCCCTG	438
Db	302	GCGTCATCCAGGAGCAAGAGGAGGCTGAGACTGAGGACCTTACGCGGCTACTCCGAGCCCTG	361
Qy	439	CCCTTGGGCTCTTGGGCTGCTCCCGCGAGCGGGCGCTGTGTGTA CTTGCGAGGTGAGACGCGAGC	498
Db	362	CCCTTGGGCTCTTGGGCTGCTCCCGCGAGCGGGCGCTGTGTGTA CTTGCGAGGTGAGACGCGAGC	420
Qy	499	CCCCGAGACTGAGACGCGCCCTGTGTAGAGCAAGCGCGAGGCGAGACCAATGACACTCC	558
Db	421	CCCCGAGACTGAGAGCGGCGCCCTGTGTAGAGCAAGCGCGAGGCGAGACCAATGACACTCC	480
Qy	559	GGCTGAAAGCCCGCTTTGAGAGACCTTGAGACGAGCTGTGCGGCGGAGGCGGAGACCT	618
Db	481	GGCTGAAAGCCCGCTTTGAGAGACCTTGAGAGACGAGCTGTGCGGCGGAGGCGGAGACCT	540
Qy	619	TGCACTGTGCGCTGTGTGTGATGCGGACCAAGAGAAATGCTCCGCTACTTACGAGCGCTGCG	678
Db	541	TGCACTGTGCGCTGTGTGTGATGCGGACCAAGAGAAATGCTCCGCTACTTACGAGCGCTGCG	599
Qy	679	TGAGCTGTGCTGACACCCGAGGACCTCAGCGCGTCTCAGAGTCTGTGTGCGGAGGAGAG	738
Db	600	TGAGCTGTGCTGCGACCCCGAGGACCTCCTCGCGTCTCAGAGTCTGTGTGCGGAGGAGAG	659
Qy	739	TGCTGCAACCTCCGAAAGGGAGCGTGTGCGGCCCGAGTGTGTGCGAACTTAAACGACGCA	798
Db	660	TGCTGCAACCTCCGAAAGGGAGCGTGTGCGGCCCGAGTGTGTGCGACACTTAAAGAACGCA	718
Qy	799	TCCGGGCGGAGCGTCAAGGCTCTACATCAAGCTCTCAGCCCTGTGAGGAGATGAGACTCACTTGG	858
Db	719	TCCGGGCGGAGCGTCAAGGCTCTACATCAAGCTCTCAGCCCTGTGAGGAGATGAGACTCACTTGG	775
Qy	859	CCTTCAAGATCTTAGGCGCTGAGC 880	
Db	776	GCCCTCAGAGATCTAAGGCGCTGAGC 797	

RESULT 7	
EM976177/c	
LOCUS	714 bp. mRNA linear EST 21-FEB-2000
DEFINITION	
ACCESSION	U1- <i>CG-EN1-acy-e-23-0-U1</i> s1 U1- <i>CF-EN1</i> Homo sapiens cDNA clone
VERSION	U1- <i>CG-EN1-acy-e-23-0-U1</i> 3', mRNA sequence.
KEYWORDS	EM976177.1 GI:19593768
SOURCE	EST.
ORGANISM	Homo sapiens (human)
REFERENCE	Homo sapiens:
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
JOURNAL	1 (bases 1 to 714)
MEDLINE	Bonaldi,M.F., Lennon,G. and Soares,M.B.
PUBMED	Normalisation and subntraction: two approaches to facilitate gene
COMMENT	discovery
	Genome Res. 6 (9), 791-806 (1996)
	97044477
	8889548
	Contact: McCray, PB

2024 University of Iowa Med Labs, Iowa City, IA 52242, USA
Tel: 319 356 4866
Fax: 319 356 7171
Email: paul-mccrayer@uiowa.edu

FEATURES

Location/Qualifiers

Tissue Procurement: Dr. M. J. Welsh, University of Iowa

CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa

CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

DNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com) or from Open Biosystems (www.openbiosystems.com).

Seq primer: MJ3 FORWARD

PolyA=Yes

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FEATURES
Source
1. 714
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-CF-EN1-acy-e-23-0-UI"
/tissue_type="Primary Lung Cystic Fibrosis Epithelial
Cells"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies) (11 phage resistant)"
/clone_lib="UI-CF-EN1"
/notes="Organ: Lung; Vector: pRTT3-Pac (Pharmacia) with a
modified polylinker; Site 1: EcoR I; Site 2: Not I;
UI-CF-EN1 is a normalized cDNA library containing the
following tissue(s): Primary Lung Cystic Fibrosis
Epithelial Cells. The library was constructed according to
Bonaldo, Lennon and Soares, Genome Research, 6:791-806,
1996. First strand cDNA synthesis was primed with an
oligo-dT primer containing a Not I site. Double stranded
cDNA was ligated to an EcoR I adaptor, digested with Not
I, and cloned directionally into pRTT3-Pac vector. The
oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tag for this library is CTGCTCAGGT.
TAG TISSUE=human Lung Epithelial Cell Lines untreated LPS
chr to LPS 24h
TAG_LIB=UI-CF-EN1
TAG_SEQ=CTGCTCAGGT"

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Query Match	Similarity	91.5%	Score	707.2	DB	12	Length	714
Best Local	Similarity	96.6%	Pred.	70.7	66+78			
Matches	709	Conservative	0	Mismatches	3	Indels	0	Gaps
QY	278	GCAACCCGCGCTGCAGAGCTGAGGCTGCTCAACCTTGAGAGCAGCCGACGAGGAGTTCAT	33.7					
Db	714	GCACCCGCGCTGCAGAGCTGAGGCTGCTCAACCTTGAGAGCAGCCGAGGAGTTCAT	65.8					
QY	338	GATGACCTGCGAGAGCAGGCCAGGCTTTGAGCAACCTGGCGGAGCTCATCCAGAGCAGAA	39.7					
Db	654	GATGACCTGCGAGAGCAGGCCAGGCTTTGAGCAACCTGGCGGAGCTCATCCAGAGCAGAA	59.8					
QY	398	GCGCGTGAACCTTGAGCAGCTTTCACGAGGCTACTCCGCCCTTGACCTTGACCTTGAGCTGCC	45.7					
Db	594	GCGCGTGAACCTTGAGCAGCTTTCACGAGGCTACTCCGCCCTTGACCTTGAGCTGCC	53.8					
QY	458	CGCGGACGGGCGCGCTGTGTGACCTGCGAGGTGAGAGCGCAGGCCCGCGAGGCTGGACCGGC	51.7					
Db	534	CGCGGACGGGCGCGCTGTGTGACCTGCGAGGTGAGAGCGCAGGCCCGCGAGGCTGGACCGGC	47.8					
QY	518	CTGTGTGAGAGCAGGCCAGGCGAGGCGAGCACAAGATGACCTCCGAGCTGAAAGCCCGCTTGA	57.7					
Db	474	CTGTGTGAGAGCAGGCCAGGCGAGGCGAGCACAAGATGACCTCCGAGCTGAAAGCCCGCTTGA	41.8					
QY	578	GACCCCTGGAACAGCTGCTGCGCGCGCGGAGGCGGCGACCTTTCGACCTGAGCCCTGTGTGA	63.7					
Db	414	GACCCCTGGAACAGCTGCTGCGCGCGGAGGCGGCGGAGGCGGACCTTTCGACCTGAGCCCTGTGTGA	35.8					
QY	638	TGCGGACAGAGAGAGCTGCTCCGCTCTAGAGAGCGCTGCTTGAGAGCTGTGCGACCCGG	69.7					
Db	354	TGCGGACAGAGAGAGCTGCTCCGCTCTAGAGAGCGCTGCTTGAGAGCTGTGCGACCCGG	29.8					
QY	698	AGGCACTCTCGCGCTCTCAAGATCTGTGTGCGCGGAGAGGTGCTGCAACTCCGAAAG	75.7					

Db 294 AGGACATCTCGCCCTCTCAGAGTCCTGTGGCGGGAGAGGTGTGCAACCTCCGAAGG 235

Qy 758 GGAAGTGGCGGCGCAGATGTGTGCGAAAACCTAAACGAACGATCCGGCGGACGTAGAGGT 817

Db 234 GGAATGGCGGCGCAGATGTGTGCGAAAACCTAAACGAACGATCCGGCGGACGTAGAGGT 175

Qy 818 CTAATACAGCTCTCTGCCCCCTGGCGGATGAGACTCACTTGGCTTCAAGATCTAGGGCTG 877

Db 174 CTAATACAGCTCTCTGCCCCCTGGCGGATGAGACTCACTTGGCTTCAAGATCTAGGGCTG 115

Qy 878 GCCCTAGTGAAGTGGGCTCGAGGAGGAGTGTCTGGGAAACCCAGAAATGACCTGAGT 937

Db 114 GCCCTAGTGAAGTGGGCTCGAGGAGGAGTGTCTGGGAAACCCAGAAATGACCTGAGT 55

Qy 938 TTTAAATTCGAAATTAAGTGGGCTGGGACACAAAAA 989

Db 54 TTTAAATTCGAAATTAAGTGGGCTGGGACACAAAAA 3

RESULT 8

LOCUS CB852718 750 bp mRNA linear EST 22-APR-2003

DEFINITION UI-CF-FNO-afl-p-08-0-UI.s1 UI-CF-FNO Homo sapiens cDNA clone

ACCESSION CB852718

VERSION CB852718.1 GI:30047716

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 750)

AUTHORS Ronaldo M.F., Lennon G. and Soares M.B.

TITLE Normalization and subtraction: two approaches to facilitate gene discovery

JOURNAL Genome Res. 6 (9), 791-806 (1996)

MEDLINE 97044477

PUBMED 8889548

COMMENT Contact: McCray, PB

University of Iowa

2024 University of Iowa Med Labs, Iowa City, IA 52242, USA

Tel: 319 356 4866

Fax: 319 356 7171

Email: paul.mccray@uiowa.edu

Tissue Procurement: Dr. M. J. Welsh, University of Iowa

cDNA Library preparation: Dr. M. Bento Soares, University of Iowa

cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa

DNA Sequencing by: Dr. M. Bento Soares, University of Iowa

Clone Distribution: Researchers may obtain clones from Research Genetics (www.resgen.com) or from Open Biosystems (www.openbiosystems.com).

Seq primer: M13 FORWARD

POLYA-No.

FEATURES

Source

1. .750

Location/Qualifiers

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="UI-CF-FNO-afl-p-08-0-UI"

/tissue="Human Lung Epithelial cells"

/lab_host="DH10B (Life Technologies) (T1 phage resistant)"

/clone_id="UI-CF-FNO"

/note="Organ: Lung; Vector: pT73-Pac (Pharmacia) with a modified polylinker; Site 1: Score 1; Site 2: Not 1; UI-CF-FNO is a subtracted cDNA library derived from two normalized Human lung epithelial cell libraries (EN1 and DU1) The library was subcloned according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. For additional information, contact: bento-soares@uiowa.edu

TAG_SEQ=None found"

ORIGIN

Query Match 70.8%; Score 699.8; DB 14; Length 750;

Best Local Similarity 97.3%; Pred. No. 6,1e-77;

Matches 732; Conservative 0; Mismatches 18; Indels 2; Gaps 2;

Qy 148 GGGCGCCCTCGCCCACTGGCCCTTCTCTGGGAGAGCGGTGCCCCCAATGAGAGCCGGC 207

Db 1 GGGCGCGCTCCAAACACCTCTCTCCCGTCAAGAGAGCGGTGCCCCCAATGAGAGCCGGC 60

Qy 208 GAGAGAGTGCCTGCTTCCCCCGAGAGAGAGCGCGCTGTGAGATCTTCTGACCGCT 267

Db 61 GAGAGAGTGCCTGCTTCCCCCGAGAGAGAGCGCGCTGTGAGATCTTCTGACCGCT 120

Qy 268 CCATGCGGAGACACCGCGCTGCGAAGCTTGAAGCTCTGACCTGTGAGAGAGCCGACG 327

Db 121 CCATGCGGAGACACCGCGCTGCGAAGCTTGAAGCTCTGACCTGTGAGAGAGCCGACG 180

Qy 328 GGGATTCATATGATGACCTGCGAGAGGCGGCTTGGCCCACTGGGCGGCTCATCC 387

Db 181 GGGATTCATATGATGACCTGCGAGAGGCGGCTTGGCCCACTGGGCGGCTCATCC 240

Qy 388 AGGCGAAGAGCGGCTGGAACCTGCGACCTTTCACGAGCTACTCCGCTGCGCTGAGCC 447

Db 241 AGGCGAAGAGCGGCTGGAACCTGCGACCTTTCACGAGCTACTCCGCTGCGCTGAGCC 300

Qy 448 TGGCGCTGCGCGGAGCGGCGCTGTGACCTTGTGAGAGTGAACCGGACCCCGGAGC 507

Db 301 TGGCGCTGCGCGGAGCGGCGCTGTGACCTTGTGAGAGTGAACCGGACCCCGGAGC 360

Qy 508 TGGGACGCGCCCTGTGAGAGGCGAGGCGGAGGCGGAGACAAAGTCACTCCGCTGAGC 567

Db 361 TGGGACGCGCCCTGTGAGAGGCGAGGCGGAGGCGGAGACAAAGTCACTCCGCTGAGC 420

Qy 568 CCGCCTTGAAGACCTTGAAGAGCTGTGCGGCGGCGGAGGCGGACCTTTCACGCTG 627

Db 421 CCGCCTTGAAGACCTTGAAGAGCTGTGCGGCGGCGGAGGCGGACCTTTCACGCTG 480

Qy 628 CCGTGTGATGCGGAGCAAGAGAACTGCTCGGCTTCAAGAGCGCTGCGAGCTGC 687

Db 481 CCGTGTGATGCGGAGCAAGAGAACTGCTCGGCTTCAAGAGCGCTGCGAGCTGC 540

Qy 688 TCGGACCGCGAGGACCTCTGCGCTCTCAAGTCTGTGCGCGGAGAGTGTCTGCAAC 747

Db 541 TCGGACCGCGAGGACCTCTGCGCTCTCAAGTCTGTGCGCGGAGAGTGTCTGCAAC 600

Qy 748 CTCGGAAGGAGGAGCGTGGCGGCGGAGTGTGCGAAACCTAAAGAGCATCCGGCGGG 807

Db 601 CTCGGAAGGAGGAGCGTGGCGGCGGAGTGTGCGAAACCTAAAGAGCATCCGGCGGG 660

Qy 808 AGGTGAGGTCTACATCAAGCTCTGCTGCGCGGAGTGAATCACTTGGCTTCAAGA 867

Db 661 AGGTGAGGTCTACATCAAGCTCTGCTGCGCGGAGTGAATCACTTGGCTTCAAGA 719

Qy 868 TCTAGGCTGCGCCCTAGTGAAGTGGCTCGAG 899

Db 720 TCTAGGCTGCGCCCTAGTGAAGTGGCTCGAG 750

RESULT 9

LOCUS BE796570 772 bp mRNA linear EST 20-SEP-2000

DEFINITION 6015922471 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946546 5',

ACCESSION BE796570

VERSION BE796570.1 GI:10217768

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 772)

AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

NIH-MGC http://mgi.nci.nih.gov/.

TITLE
JOURNAL
COMMENT

National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cga@db-remail.nih.gov
Tissue Procurement: DCTD/DRP
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: image.llnl.gov
Plate: LNCM806 row: m column: 11
High quality sequence stop: 766.
Location/Qualifiers

FEATURES

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/mol_type="mRNA"
/db_xref="taxon:9606"
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/cell_line="MGC3"
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/clone_1ib="NIH MGC 7"
/note="Organ: Lung; Vector: pORF7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
ORIGIN

Query Match 69.2%; Score 684.4; DB 10; Length 772;
Best Local Similarity 97.4%; Pred. No. 4.7e-75;
Matches 760; Conservative 0; Mismatches 11; Indels 9; Gaps 6;
83 CATGACCCAGCCGCGTCCCGGCTCTCCGTCGCGCGCGCTGAGCCTGAGGCTCAGCGC 142
1 CATGACCCAGCCGCGTCCCGGCTCTCCGTCGCGCGCGCTGAGCCTGAGGCTCAGCGC 60.
143 ACTGGGCGCGCCCTTGGCACTGAGCTTCTTCTGGGAGAGCGGCTGCGCCCATGGCGAG 202
61 ACTGGGCGCGCCCTTGGCACTGAGCTTCTTCTGGGAGAGCGGCTGCGCCCATGGCGAG 120
203 CCGGCGAGAGAGAGTGGCTTCCCGCGAGAGAGCGGCTGAGGAGTATCTTCTGAG 262
121 CCGGCGAGAGAGAGTGGCTTCCCGCGAGAGAGCGGCTGAGGAGTATCTTCTGAG 180
263 CCGCTCCATGGGAGAGAGCGCGGCGCTGCGAGGCTGAGGCTGAGCCTGAGAGAGCC 322
181 CCGCTCCATGGGAGAGAGCGCGGCGCTGCGAGGCTGAGGCTGAGCCTGAGAGAGCC 240
323 GCAGGGGATCTTATGATGACCTGCGAGAGAGCGGCTGAGGAGTATCTTCTGAG 382
241 GCAGGGGATCTTATGATGACCTGCGAGAGAGCGGCTGAGGAGTATCTTCTGAG 300
383 CATCAGGCGCAAGAGGCGCTGAGCCTGAGGAGCCTTCAAGGCGCTGAGGCGCT 442
301 CATCAGGCGCAAGAGGCGCTGAGCCTGAGGAGCCTTCAAGGCGCTGAGGCGCT 360
443 GGGCTGGCGCTGCGCGGAGAGCGGCGGCTGAGCCTGAGGAGTATCTTCTGAG 502
361 GGGCTGGCGCTGCGCGGAGAGCGGCGGCTGAGCCTGAGGAGTATCTTCTGAG 420
503 GAGCTGGAGAGCGCGCTGAGAGGAGCGCGAGGCGAGAGCAGAGTATCTTCTGAG 562
421 GAGCTGGAGAGCGCGCTGAGAGGAGCGCGAGGCGAGAGTATCTTCTGAG 480
563 GAGCTGGAGAGCGCGCTGAGAGGAGCGCGAGGCGAGAGTATCTTCTGAG 622
481 GAGCTGGAGAGCGCGCTGAGAGGAGCGCGAGGCGAGAGTATCTTCTGAG 538
623 CGTGGCGCTGAGTGGAGAGAGAGAGTCTGCGGCTGAGAGAGTATCTTCTGAG 682

Db 539 GCTGGCGCTGAGTGGAGAGAGAGTCTTCCGCTTCTGAGAGTCTGAGGCGGAGAGTGT 598
Qy 683 GCTGGCGAGAGAGAGAGAGTCTTCCGCTTCTGAGAGTCTGAGGCGGAGAGTGT 742
Db 599 GCTGGCGAGAGAGAGAGAGTCTTCCGCTTCTGAGAGTCTGAGGCGGAGAGTGT 658
Qy 743 GC-AACCTCGAGAGAGAGAGTGGGCGGAGTGTGAGAGAGTAAACAGAGCATCC 801
Db 659 GCAACCTCGAGAGAGAGAGTGGGCGGAGTGTGAGAGAGTAAACAGAGCATC 715
Qy 802 GCGGAGAGTCAAGGCTTCAATCAGCTTCTGCGCGGAGAGTCACTTCTGAGCT 861
Db 716 GCGGAGAGTCA-GCTTCACTAGC--TCTGCGGAGAGTCACTTCTGAGCT 772

RESULT 10
BF663695 779 bp mRNA linear EST 21-DEC-2000
LOCUS 602145414F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4309010 5',
DEFINITION mRNA sequence.
ACCESSION BF663695
VERSION BF663695.1 GI:11937590
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE
1 (bases 1 to 779)
NIH-MGC <http://mgc.ncl.nih.gov/>.
NATIONAL INSTITUTES OF HEALTH, MAMMALIAN GENE COLLECTION (MGC)
JOURNAL
TITLE
AUTHORS
CONTACT: Robert Strausberg, Ph.D.
Email: cga@db-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at: <http://image.llnl.gov>
Plate: LNCM1181 row: 1 column: 03
High quality sequence stop: 761.
Location/Qualifiers

FEATURES

source
1..779
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4309010"
/tissue_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_1ib="NIH MGC 48"
/note="Organ: B-cells; Vector: pORF7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
Note: this is a NIH_MGC Library."

ORIGIN

Query Match 67.7%; Score 669.8; DB 10; Length 779;
Best Local Similarity 98.1%; Pred. No. 2.9e-73;
Matches 762; Conservative 0; Mismatches 7; Indels 8; Gaps 8;
79 GGGCCATGACCCAGCGGCGTCTCCGTCGCGCGCGCTGAGCCTGAGGCTGAG 138
Db 2 GGGCCATGACCCAGCGGCGTCTCCGTCGCGCGCGCTGAGCCTGAGGCTGAG 61
Qy 139 CCGCACTGGGCGCGCCTTGGCACTGAGCTTCTTCTGGGAGAGGCGGCTGAGGCG 198

Db 62 CCGCATCTGGGCGCGCTTGGCCACTGCGCTCTTCTTGGGAGGCGGTGCCCCCATGCG 121
 QY 199 GAGGCGCGCGAGAGAGAGTGGCTGCTTCCCGCCGAGAGAGCGCGCTGTGGAGATCTTC 258
 Db 122 GAGGCGCGCGAGAGAGAGTGGCTGCTTCCCGCCGAGAGAGCGCGCTGTGGAGATCTTC 181
 QY 259 TGAGCGCGCTCCATGGGAGAGAGAGCGCGCTGTGGAGAGAGCGCGCTGTGGAGAG 318
 Db 182 TGAGCGCGCTCCATGGGAGAGAGAGCGCGCTGTGGAGAGAGCGCGCTGTGGAGAG 241
 QY 319 AGCGCGAGAGAGAGATCTTATGATGACCTTGGAGAGAGAGCGCGCTGTGGAGAGAG 376
 Db 242 AGCGCGAGAGAGAGATCTTATGATGACCTTGGAGAGAGAGCGCGCTGTGGAGAGAG 301
 QY 377 GCGGCTATCCAGAGCGCGAGAGAGAGCGCGCTGTGGAGAGAGCGCGCTGTGGAGAG 435
 Db 302 GCGGCTATCCAGAGCGCGAGAGAGAGAGCGCGCTGTGGAGAGAGCGCGCTGTGGAGAG 361
 QY 436 TGCGCGCTGCGCTGCGC-GCTGCGCGCGAGAGAGAGAGCGCGCTGTGGAGAGAGAG 434
 Db 362 TGCGCGCTGCGCTGCGC-GCTGCGCGCGAGAGAGAGAGCGCGCTGTGGAGAGAGAG 421
 QY 495 GAGCGCGCGAG 554
 Db 422 GAGCGCGCGAG 481
 QY 555 CTGCGGCTGAG 614
 Db 482 CTGCGGCTGAG 541
 QY 615 ACCTTTCAG 673
 Db 542 ACCTTTCAG 601
 QY 674 CTGCGGCTGAG 732
 Db 602 CTGCGGCTGAG 661
 QY 733 GGAAG 791
 Db 662 GGAAG 721
 QY 792 GAAG 847
 Db 722 GAGCGCATCCGCGCGAG 778

RESULT 11
 B0931589 934 bp mRNA linear EST 21-AUG-2002
 LOCUS AGENCOURT 8795361 NIH_MGC_101 Homo sapiens cDNA clone IMAGE:6427775
 DEFINITION 5', mRNA sequence.
 ACCESSION B0931589
 VERSION B0931589.1 GI:22346620
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 934)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health; Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: ATCC
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: L1CM2613 row: e column: 24

FEATURES High quality sequence stop: 532.
 Location/Qualifiers
 1..934
 source
 /organism="Homo sapiens"
 /mol_type="RNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6427775"
 /tissue_type="epidermoid carcinoma, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_1lb="NIH MGC 101"
 /note="Organ: lung; Vector: pORF7; Site 1: EcoRI; Site 2:
 XhoI; cDNA made by oligo-dt priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

ORIGIN
 Query Match 67.4%; Score 666.4; DB 13; Length 934;
 Best Local Similarity 95.8%; Pred. No. 7.3e-73;
 Matches 751; Conservative 0; Mismatches 21; Indels 12; Gaps 6;

QY 87 ACCGACCGGAGCGCGCGCTCCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 146
 Db 1 ACCGACCGGAGCGCGCGCTCCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 60
 QY 147 GCG 206
 Db 61 GCG 120
 QY 207 CGAG 266
 Db 121 CGAG 180
 QY 267 TCATGCGGAG 326
 Db 181 TCATGCGGAG 236
 QY 327 GGGAGATTAT 386
 Db 237 GGGAGATTAT 296
 QY 387 CAGGCGAG 446
 Db 297 CAGGCGAG 356
 QY 447 CTGGCGCTGCGCGCGAG 506
 Db 357 CTGGCGCTGCGCGCGAG 416
 QY 507 CTGGAG 566
 Db 417 CTGGAG 476
 QY 567 CCGGCTTGGAG 626
 Db 477 CCGGCTTGGAG 536
 QY 627 GCGGTGAG 686
 Db 537 GCGGTGAG 596
 QY 687 CTGGAG 746
 Db 597 CTGGAG 656
 QY 747 CTTCGAG 801
 Db 657 CTTCGAG 716
 QY 802 GCGGAG 858

Db 717 GCGGGAGAGTACAGGGTCTACATCAGCTCCGGGCGGAGGAGTCACTCTGG 776
 QY 659 CCTT 862
 Db 777 CCTT 780

RESULT 12
 B0072503 1065 bp mRNA linear EST 02-APR-2002
 LOCUS B0072503
 DEFINITION AGENCOURT 6838941 NIH_MGC_122 Homo sapiens cDNA clone IMAGE:5761696
 5', mRNA sequence.
 VERSION B0072503
 KEYWORDS B0072503.1 GI:19901549
 SOURCE EST.
 ORGANISM Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE NIH-MGC http://mgi.nci.nih.gov/
 1 (bases 1 to 1065)
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: gsabbs-remail.nih.gov
 Tissue Procurement: Life Technologies, Inc.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: LLM12810 row: 1 column: 17
 High quality sequence stop: 489.
 Location/Qualifiers
 1..1065
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5761696"
 /lab_host="DH10B"
 /clone_1b="NIH_MGC_122"
 /note="Organ: pooled lung and spleen; Vector: pCMV-Sport6;
 Site 1: NotI; Site 2: EcoRV (destroyed); RNA source
 anonymous pool of 24 week female lung; 16 week female
 spleen, and 20-22 week male spleens. Library is oligo-dT
 primed, and directionally cloned (EcoRV site is destroyed
 upon cloning). Average insert size 1.4 kb, insert size
 range 1-3 kb. Library is normalized and enriched for
 full-length clones and was constructed by C. Gruber
 (Invitrogen). Research Genetics tracking code 026. Note:
 this is a NIH_MGC Library."

ORIGIN
 Query Match 63.7%; Score 630; DB 13; Length 1065;
 Best Local Similarity 96.7%; Pred. No. 2,1e-68;
 Matches 675; Conservative 0; Mismatches 20; Indels 3; Gaps 3;

QY 1 GCGGGCGGAGTACAGGGTCTACATCAGCTCCGGGCGGAGGAGTCACTCTGG 60
 Db 1 GCGGGCGGAGTACAGGGTCTACATCAGCTCCGGGCGGAGGAGTCACTCTGG 60
 QY 61 TCCCGCGGCTCTCTGCGCGGCGCATGAGCCGCGTCCCGGCTCTCTGCGCGG 120
 Db 61 TCCCGCGGCTCTCTGCGCGGCGCATGAGCCGCGTCCCGGCTCTCTGCGCGG 120
 QY 61 TCCCGCGGCTCTCTGCGCGGCGCATGAGCCGCGTCCCGGCTCTCTGCGCGG 120
 Db 61 TCCCGCGGCTCTCTGCGCGGCGCATGAGCCGCGTCCCGGCTCTCTGCGCGG 120
 QY 121 GCGTGGCGCTGAGCGGAGTGGGCGCGCTTGGCCAGTGGCTTCTTCTGGGGA 180
 Db 121 GCGTGGCGCTGAGCGGAGTGGGCGCGCTTGGCCAGTGGCTTCTTCTGGGGA 180
 QY 181 GCGGCTGCGGCGCATGAGCGGCGGAGGAGTGGCTTCTTCTGGGAGCAAGCC 240

Db 181 GCGGCTGCGGCGCATGAGCGGCGGAGGAGTGGCTTCTTCTGGGAGCAAGCC 240
 QY 241 GCGTGGCGGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 300
 Db 241 GCGTGGCGGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 300
 QY 301 GCGTGGCGGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 360
 Db 301 GCGTGGCGGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 360
 QY 361 TCTTGGCGGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 420
 Db 361 TCTTGGCGGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 420
 QY 421 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 480
 Db 421 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 480
 QY 481 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 540
 Db 481 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 540
 QY 541 AGCAGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAGGAG 599
 Db 541 AGCAGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAGGAG 600
 QY 600 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 657
 Db 601 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 660
 QY 658 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 695
 Db 661 GCGGCTGAGTATCTTCTGAGCGCGCTCATGAGGAGGAGGAGGAGGAGGAG 698

RESULT 13
 BMT68764 625 bp mRNA linear EST 04-MAR-2002
 LOCUS BMT68764
 DEFINITION K-EST0051789 S14K402 Homo sapiens cDNA clone S14K402-11-A01 5',
 mRNA sequence.
 ACCESSION BMT68764
 VERSION BMT68764.1 GI:19098379
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 REFERENCE Kim, N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R.,
 Oh, K.J., Cheong, J.E., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and
 Kim, Y.S.
 21C Frontiers Korean EST Project 2001
 Unpublished (2002)
 CONTACT: Kim YS
 TITLE Genome Research Center
 JOURNAL Korea Research Institute of Bioscience & Biotechnology
 COMMENT 52 Beon-dong, Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kribb.re.kr
 Plate: 11 row: A column: 01
 High quality sequence stop: 625.
 Location/Qualifiers
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="S14K402-11-A01"
 /cell_line="K402"
 /lab_host="Top10F"
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 /note="Organ: Stomach; Vector: pTZ18RP1; Site 1: EcoRI;
 Site 2: NotI; The poly (A) + RNA was dephosphorylated with

bacterial alkaline phosphatase (BAP) and then deacapped with cadacco acid pyrophosphatase (TAP). The deacapped intact mRNA was ligated with DNA-RNA linker including EcoR I site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dt-selected mRNA by priming with dt-tailed vector. The dt-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoR I which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The obtained cDNA vectors were used for transformation of competent cells E. coli Top10⁺ by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."

ORIGIN

Query Match 63.2%; Score 625; DB 12; Length 625;
Best Local Similarity 100.0%; Pred. No. 1e-67;
Matches 625; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 65 GCGGCTCTGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 124
DB 1 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 60
QY 125 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 184
DB 61 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 120
QY 185 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 244
DB 121 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 180
QY 245 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 304
DB 181 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 240
QY 305 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 364
DB 241 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 300
QY 365 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 424
DB 301 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 360
QY 425 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 484
DB 361 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 420
QY 485 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 544
DB 421 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 480
QY 545 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 604
DB 481 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 540
QY 605 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 664
DB 541 GCGGCTCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCT 600
QY 665 CTACGAGCGCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCT 689
DB 601 CTACGAGCGCTGCGCGCGCCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCT 625

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RESULT 14
BG339399 912 bp mRNA linear EST 27-FEB-2001
LOCUS 602437508F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4555609 5',
DEFINITION mRNA sequence.
BG339399
ACCESSION BG339399.1 GI:13145837
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 912)
AUTHORS NIH-MGC
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strauberg, Ph.D.
Email: cga@rs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LHC1256 row: 0 column: 02
High quality sequence stop: 719.
Location/Qualifiers
1. 912

FEATURES

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/db_xref="taxon:9606"
/clone="IMAGE:4555609"
/issue_type="leukomyosarcoma cell line"
/lab_host="DH10B (phage-resistant)"
/note="Organ: uterus; Vector: pOTB7; Site 1: XhoI; Site 2: EcoRI; cDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

ORIGIN

Query Match 62.8%; Score 621; DB 12; Length 912;
Best Local Similarity 96.5%; Pred. No. 2.8e-67;
Matches 742; Conservative 0; Mismatches 15; Indels 12; Gaps 10;

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QY 73 CTGCCCCGCGCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCTGCGCGCT 132
DB 2 CTGCCCCGCGCATGACCCAGCGGCTGCGCGCTCCGCGCGCGCGCTGCGCGCT 61
QY 133 GCTCAGCGGCGCGCGCGCGCTTGGCACTGCGCGCTCTTCTGCGGAGAGCGGCGCGCG 192
DB 62 GCTCAGCGGCGCGCGCGCGCTTGGCACTGCGCGCTCTTCTGCGGAGAGCGGCGCGCG 121
QY 193 CATGCGGAGCGCGCGCGAGAGAGTGTCTTCCCGCGAGAGACCGCTGTGGCACT 252
DB 122 CATGCGGAGCGCGCGCGAGAGAGTGTCTTCCCGCGAGAGACCGCTGTGGCACT 181
QY 253 ATCTTGTAGCGCGCTCATGCGGAGAGACCGCGGCTGTGAGAGCGCTGAGAGCG 312
DB 182 ATCTTGTAGCGCGCTCATGCGGAGAGACCGCGGCTGTGAGAGCGCTGAGAGCG 241
QY 313 TGGAGAGCGCGAGGAGAGTCTATGATGACCTTGGAGAGAGCGCCAGCTTTGGCCAAAC 372
DB 242 TGGAGAGCGCGAGGAGAGTCTATGATGACCTTGGAGAGAGCGCCAGCTTTGGCCAAAC 301
QY 373 TGGCGGCGCTCATTCAGAGCGCAAGAGAGCGCTGAGACCTTCAAGGCGTACTCGG 432
DB 302 TGGCGGCGCTCATTCAGAGCGCAAGAGAGCGCTGAGACCTTCAAGGCGTACTCGG 361
QY 433 CCTGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCT 492
DB 362 CCTGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCTTGGCGCT 420
QY 493 CGGAGCGCGCGAGCGCGCGCGCGCGCTTGTGAGAGAGCGCGAGCGCGAGCGCAAGAGTGC 552

```


Db 79 CTGGCCCTGGGCTGGCCGCGCTGGGCGCCGCTTCGTACTGGTCTTTCCTGGGAAA 138
QY 183 CGGTGCCCCCGCATGGCCGAGGCGGAGAGCAGTGCCTTCCCGCCGAGGACAGCGC 242
Db 139 CGGTGGCTTCAATGGGGGTCCAGGGGGAGAGCGCTGTGCTCCACTGAGGACATCC 198
QY 243 CTGTGGCAGTATCTTCTGAGCGCTCCATGCGGAGGACCCCGGCTGCGAAGCTGAG 302
Db 199 CTGTGGCAGTATCTGCTAGCGCTCCATGAGAGACCCCGGCTGCGAAGCTGAG 258
QY 303 CTGCTGACCTGGAGGAGCGGAGGGGATCTATGATGACCTGCGAGAGCGCCAGCTC 362
Db 259 CTGCTGACCTGGAGGAGCGGAGGGGATCTCATGATGACCTGTGACAGGCCAGCTT 318
QY 363 TTGGCCAACTGGCGCGGCTCATCCAGGCCAAGAGGCGCTGACCTGGGACCTTCAG 422
Db 319 CTGGCCAACTGGCGCGGCTCATTAAGGCCAAGAAAGCTGTGATCTGGGTACTTCA 378
QY 423 GGGTAATCCCGCTGGCCCTTGGCCCTTGGCCGCTGCGCGAGAGCGGCGCTGTGACCTGC 482
Db 379 GGGTAATCCCGCTGGCCCTTGGCCCTTGGCCGCTTCCGAGGCTGGCCGCGGTGACCTGC 438
QY 483 GAGGTGACGCGGAGCGCCCGGAGCTGGGACGCGCCCTGTGAGGAGCGGAGCGGAG 542
Db 439 GAGGTGACGCGGAGCGCCCGGAGCTGGGACGCGCCCATGTGAGAGCAGGACAGAGT 498
QY 543 CACAAGATCGACTTCGGCTGAGCCCGCTTGGAGACCTGTGACGAGCTGTGGCGGCG 602
Db 499 CAGAAGATCGACTTCGGCTGAGCCCGGAGCTGGGACATGTGATGAGCTCTTAGCGG 558
QY 603 GCGAGGCGCGGACCTTCGACGTGGCGGTGTGATGCGGACAAAGAGAACTGCTCGGC 662
Db 559 GCGAGGCGCGGACCTTCGACGTGGCGGTGTGATGCGGACAAAGAGAACTGTACCGCC 618
QY 663 TACTACGAGCGCTGCTGAGCTGTGAGACCCGAGAGGACATCTGCGCCGTCTCAGAGTC 722
Db 619 TACTACGAGCGCTGCTGAGCTGTGAGACCCGAGAGGAGCTGCTGCTGACTCAGAGTC 678
QY 723 CTGTGGGCGCGGAGAGGTGTGACACTCCGAAAGGAGGACGTGGCGCGGAGGTGTGCGA 782
Db 679 CTGTGGGCGCGGAGAGGTGTGACACTCCGAGGAGGAGGAGGAGGAGGAGGAGGAG 738
QY 783 AACCTAAACGAGCGCATCCGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 842
Db 739 AACCTAAACGAGCGCATCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 798
QY 843 GATGAGCTCACTTGGGCTTCAAGATCTAGGGCTGGCCCTTGAATGAGTGGGCTGAGGGA 902
Db 799 GATGAGCTCACTTGGGCTTCAAGATCTAGGGGTTAACAGAGGCTTAGGGCT--GGGT 855
QY 903 GGGTGGCTGGGAGACCCGAGGATTTGACCTGAGTTTAAATTGAAAAATAAG 956
Db 856 GTGAGAACCTAAGACCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 909

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Job time : 3089 secs